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Physical, Mathematical & Engineering Sciences 2009

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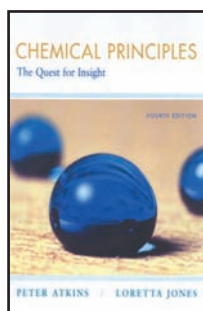
GENERAL CHEMISTRY

Chemical Principles

The Quest for Insight

4th edition

HIGHLIGHT



Peter Atkins, *Lincoln College, Oxford University, UK* and **Loretta Jones**, *University of Northern Colorado, USA*

Published by W. H. Freeman and Company

Written for general chemistry courses, *Chemical Principles* helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications. It begins with a detailed picture of the atom then builds towards chemistry's frontier, continually demonstrating how to solve problems, think about nature and matter, and visualize chemical concepts in the same way as working chemists.

New to this Edition

- New 3-column Worked Examples and Tool Boxes provide a visual explanation of the concepts.
- Enriched and improved End-of-Chapter Problems.
- New Green Chemistry coverage marked with an icon in the text.
- New 'A Note on Good Practice' feature reminds students of standard conventions they should know.
- New inserted Periodic Table and Key Equations Card for easy studying.

Contents: Fundamentals - Atoms: The Quantum World - Chemical Bonds - Molecular Shape and Structure - The Properties of Gases - Liquids and Solids - Thermodynamics: The First Law - Thermodynamics: The Second and Third Laws - Physical Equilibria - Chemical Equilibria - Acids and Bases - Aqueous Equilibria - Electrochemistry - Chemical Kinetics - The Elements: The First Four Main Groups - The Elements: The Last Four Main Groups - The Elements: The *d* Block - Nuclear Chemistry - Organic Chemistry I: The Hydrocarbons - Organic Chemistry II: Polymers and Biological Compounds - Appendix - Nomenclature

Student Supplements

Companion Website available at www.whfreeman.com/chemicalprinciples4e
Offers a calculator for solving equilibrium calculations; 2- and 3-dimensional curve plotters; 'Living Graphs'; WebLab Viewer Pro for exploring structure and function in 3-D molecular models; a molecules data bank; an interactive periodic table of elements; animations; web links; and 'The Fundamentals: Review Your Knowledge' self-scoring quizzes.

Study Guide and Students' Solutions Manual (978-1-4292-0099-8) £30.99: Includes detailed answers to the odd-numbered questions from the text.

Bridging to the Lab Booklet + CD-ROM + Website (978-0-7167-4746-8) £20.99: 11 interactive lab modules offer real-life problems in a virtual environment.

Lecturer Supplements

Companion Website available at www.whfreeman.com/chemicalprinciples4e

Instructor's Resource CD-ROM (978-1-4292-0088-2)

Instructor's Solutions Manual (978-1-4292-0100-1): Contains solutions to the even-numbered exercises in the text.

Testbank CD-ROM (978-1-4292-0089-9)

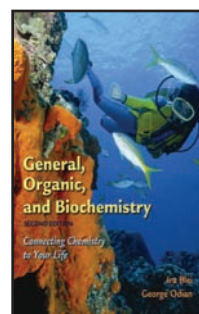
Printed Testbank (978-1-4292-0101-8)

2007
Hardback 1024pp £44.99 283x221mm 978-1-4292-0985-4

General, Organic, and Biochemistry

Connecting Chemistry to Your Life

2nd edition



Ira Blei and **George Odian**,
both at City University of New York, USA

Published by W. H. Freeman and Company

Praised for its clear, comprehensive explanations, the second edition of this approachable textbook gives students a tangible understanding of chemical principles rather than just encouraging them to remember facts. There is new material on nutrition and enhanced 'Picture of Health' drawings, which allow students to see real chemistry inside the human body.

February 2006 1000pp 284x221mm
Hardback £44.99 978-0-7167-4375-0

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Paperback £25.99 978-0-7167-7073-2

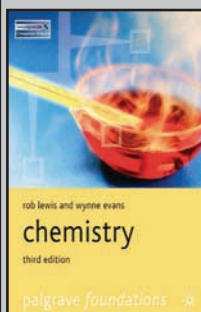
Organic Biochemistry

Containing all organic and biochemistry chapters, plus two general chemistry chapters not included in the GOB version.

Paperback £40.99 978-0-7167-7072-5

Chemistry

3rd edition



Rob Lewis and Wynne Evans, both at University of Glamorgan, UK

Published by Palgrave Macmillan

This student-friendly text has been written to provide a course in chemical literacy. Providing complete yet concise coverage of core topics, it starts students from scratch and assumes only a minimal experience

of mathematics and science. The third edition has been fully updated, and includes a new chapter on Forensic Chemistry. It is two-colour throughout to highlight important points and enhance its many features, which include diagrams, examples and exercises. The third edition also includes direct references in the text to the companion website which accompanies this book.

Contents: Periodic Table - Preface - How to Use this Book - Acknowledgements - Numbers, Units and Measurement - Elements, Compounds and Reactions - Inside the Atom - Bonding Between Atoms - More about Bonding - Reactions of Ions in Solution - Oxidation and Reduction - The Mole - Calculating Concentrations - Gases, Liquids and Solids - Solutions and Solubility - Chemical Families - Energy Changes in Chemical Reactions - Speed of Chemical Reactions - Dynamic Chemical Equilibria - Acid-Base Equilibria - Organic Chemistry: Hydrocarbons - Common Classes of Organic Compounds - Separating Mixtures - Light and Spectroscopy - Nuclear and Radiochemistry - Environmental Chemistry - Forensic Chemistry - Valencies of Common Ions - Electronic Structures - Answers to Exercises and Revision Questions - Glossary - Index - Useful Physical Constants

Student and Lecturer Supplements

Companion Website available at www.palgrave.com/foundations/lewis/home.htm

Includes: Appendices, Case Studies, Periodic Table, and Useful Resources.

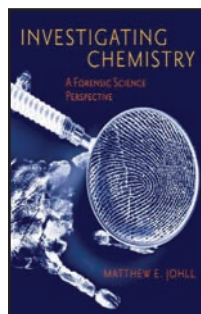
April 2006	480pp	246x189mm
Paperback	£24.99	978-0-230-00011-7

Palgrave Foundations
Series Editor: Tom Carty



Investigating Chemistry

A Forensic Science Perspective



Matthew E. Johl, Illinois Valley Community College, USA

Published by W. H. Freeman and Company

Johl's refreshing approach gives students a captivating new context for learning the fundamentals of chemistry and helps them sort the facts from the fiction when it comes to the crime-solving capabilities of current chemical practice. All of the examples and applications in the text come from the field of forensic chemistry, reinforcing the coverage of basic principles with intriguing examples while revealing the actual crime-fighting capabilities of forensic science.

Contents: Introduction to Forensic Chemistry - Evidence Collection and Preservation - Atomic Clues - Chemical Evidence - Properties of Solutions - Advanced Evidence Analysis - Drug Chemistry - The Chemistry of Addiction - Arson Investigation - The Chemistry of Explosions - Estimating Time of Death - Heavy Metal Poisoning - Nuclear Chemistry - Identification of Victims: DNA Analysis

Student Supplements

Companion Website available at www.whfreeman.com/johl

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Solutions Manual (978-0-7167-7486-0)	£12.99

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May 2006	704pp	263x209mm
Hardback	£33.99	978-0-7167-6433-5



Chemistry in Your Life

2nd edition

Colin Baird, University of Western Ontario, Canada

Published by W. H. Freeman and Company

Chemistry in Your Life is designed for students who are required to take a science course, but do not necessarily have a strong background in chemistry or science. The book makes chemistry relevant, integrating applications that help students see how chemistry affects their everyday lives. The second edition features new and updated applications of chemistry such as forensics, organic foods, drug synthesis and green chemistry. There is also increased mathematical coverage of chemical calculations along with an improved, more colourful pedagogy; all complemented by a full range of student and instructor supplementary resources.

Student Supplements

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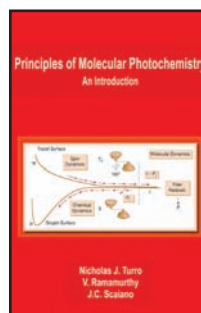


ORGANIC CHEMISTRY

Principles of Molecular Photochemistry

NEW

An Introduction



Nicholas J. Turro, Columbia University, USA,
V. Ramamurthy, University of Miami, USA and **J. C. Scaiano**, University of Ottawa, Canada

Published by University Science Books

'...the very best resource on photochemistry for students and experts alike. It's comprehensive, current and exceptionally well written. This

book belongs on every chemist's bookshelf!
- Jacqueline K. Barton, California Institute of Technology, USA

Principles of Molecular Photochemistry: An Introduction develops photochemical and photophysical concepts from a small set of familiar principles. Developed from Nick Turro's best-selling text for three decades - *Modern Molecular Photochemistry* - this updated primer introduces an initial paradigm that relates the photon and a reactant molecular structure to photochemistry through the structure and dynamics of electronically excited states, reactive intermediates and products. The same paradigm is readily adapted to incorporate the photon and a reactant molecular structure to photophysics. The book provides brilliantly clear descriptions in pictorial terms that can be readily understood by the student and applied to systems of interest.

Contents: Introduction and Overview - Electronic, Nuclear and Spin State of Electronically Excited States - Transitions Between States - Radiative Transitions Between States - Radiationless Transitions Between States - Theoretical Organic Photochemistry - Energy and Electron Transfer Processes

January 2009	530pp	240x190mm
Paperback	£39.99	978-1-891389-57-3



Chemistry in the Community

5th edition

American Chemical Society

Published by W. H. Freeman and Company

Structured around societal situations, this is a laboratory-based text that centres around decision-making activities, where students apply their chemistry knowledge to realistic situations.

Lecturer Supplements

Testbank CD-ROM (978-0-7167-6979-8)
Printed Testbank (978-0-7167-6976-7)

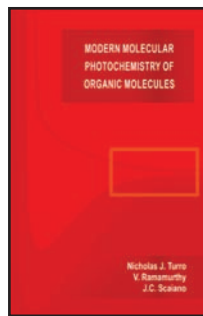
April 2006	820pp	283x222mm
Hardback	£57.99	978-0-7167-8919-2



Principles of Molecular Photochemistry

NEW

An Introduction



Nicholas J. Turro, *Columbia University, USA*, V. Ramamurthy, *University of Miami, USA* and J. C. Scaiano, *University of Ottawa, Canada*

Published by University Science Books

Modern Molecular Photochemistry of Organic Molecules is a comprehensive revision of Turro's classic text, *Modern Molecular*

Photochemistry, which has been the standard of the field for three decades. For a crystal-clear introduction to organic photochemistry in pictorial terms, this book comprises the same introductory chapters that make up *Principles of Molecular Photochemistry*, but then goes on to provide additional chapters that cover the methods for determining the mechanisms of organic photoreactions, and describe comprehensively the photochemistry of the basic functional groups of organic chemistry. The text also includes special topic chapters on supramolecular organic photochemistry, the first of its kind, and the role of triplet and singlet molecular oxygen in organic photochemistry. This text will be of interest not only to practicing photochemists and their students, but also to biological scientists, polymer scientists, material scientists and nanoscientists who use photochemistry and photophysics in their research and teaching.

Contents: Organic Photochemistry: An Overview - Electronic Orbitals, Configurations, and States - Transitions Between States: Chemical Dynamics - Potential Energy Surfaces - Radiative Transitions: The Absorption and Emission of Light - Photophysical Radiationless Transitions - Theoretical Organic Photochemistry - Mechanistic Organic Photochemistry - Energy Transfer - Photoaddition and Photosubstitution Reactions - Cycloaddition Reactions - Isomerizations and Rearrangements - Photofragmentation Reactions - Singlet Oxygen and Chemiluminescent Organic Reactions - Epilogue - Index

April 2009 1100pp 295x210mm
Hardback £48.99 978-1-891389-25-2

Transition Metals in the Synthesis of Complex Organic Molecules

NEW

3rd edition

Louis S. Hegedus, *Colorado State University, USA* and Björn C. G. Söderberg, *West Virginia University, USA*
Published by University Science Books

Review of the previous edition:

'...particularly suitable as a textbook for an advanced undergraduate course in organometallic chemistry or an introductory level graduate course in synthetic applications of transition metal chemistry.' - *Journal of Chemical Education*

Written for organic chemists, this all-new third edition offers an easy entry into the field of organotransition metal chemistry without requiring a background in inorganic chemistry. Ideal for advanced undergraduate and graduate students as well as all practicing synthetic organic chemists.

August 2009 420pp 228x164mm
Hardback £45.99 978-1-891389-59-7

Organotransition Metal Chemistry

NEW

From Bonding to Catalysis

John Hartwig, *University of Illinois, Urbana Champaign, USA*

Published by University Science Books

'The new must-have text that very soon will be recognized far and wide as a true chemistry classic.' - Harry B. Gray, *California Institute of Technology, USA*

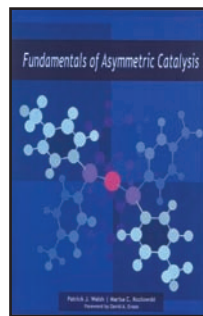
'This long-awaited new edition of a classic text does a fine job of covering the most important developments in organotransition metal chemistry over the last twenty years, while retaining the earlier versions' effective presentations of basic concepts and older work. It should well serve both teachers choosing a textbook for an advanced course and active researchers looking for a good starting reference source.' - Jay A. Labinger, *California Institute of Technology, USA*

Based on the best-selling classic text by Collman, Hegedus, Norton, and Finke, *Principles and Applications of Organotransition Metal Chemistry*, Hartwig's new text provides a comprehensive update of this vital field.

November 2009 1160pp 228x164mm
Hardback £50.99 978-1-891389-53-5

Fundamentals of Asymmetric Catalysis

NEW



Patrick J. Walsh and Marisa C. Kozlowski, *both at University of Pennsylvania, USA*

Published by University Science Books

'This book is a great tool and "go to" book for students and practitioners interested in Asymmetric Synthesis.' - Mukund Sibi, *North Dakota State University, USA*

'...an impressive piece of scholarship that will be welcomed by the catalysis community.' - Jeffrey S. Johnson, *University of North Carolina, USA*

The field of asymmetric catalysis plays an increasingly large role in chemical synthesis as the demand for single-enantiomer starting materials, intermediates, and products rises. This book describes the essential aspects of enantioselective catalysis in a clear, logical fashion, with chapters organized by concept rather than by reaction type. Each concept is supported by carefully selected examples to give the reader broad exposure to a wide range of catalysts, reactions, and reaction mechanisms. This book is designed to introduce advanced undergraduate or graduate chemistry students to asymmetric catalysis.

Contents: Introduction to Fundamentals of Asymmetric Catalysis - Modes of Asymmetric Induction - Lewis Acid and Lewis Base Catalysis - Beyond Lewis Acid and Lewis Base Catalysis - Asymmetric Induction in Enantioselective Catalysis - Nonclassical Two Point Catalyst Substrate Interactions - Chiral Poisoning, Chiral Activation, and Screening Achiral Ligands - Kinetic Resolution - Parallel Kinetic Resolution - Dynamic Kinetic Resolution and Dynamic Kinetic Asymmetric Transformations - Desymmetrization Reactions - Nonlinear Effects, Autocatalysis, and Autoinduction - Bifunctional, Dual, and Multifunctional Catalyst Systems - Asymmetric Catalysis with Homochiral Substrates: Double Diastereoselection - Multistep Asymmetric Catalysis - Supported Catalysts - Applications of Asymmetric Catalysis in Synthesis

January 2009 688pp 240x190mm
Hardback £42.99 978-1-891389-54-2

Modern Organic Synthesis

An Introduction

George S. Zweifel and Michael H. Nantz, *both at University of California at Davis, USA*

Published by W. H. Freeman and Company

Taking a reagent-based approach this text manages to clearly present the fundamental principles of this challenging subject in a clear manner that avoids overwhelming students. Bullet lists and end-of-chapter problems help students get to grips with tricky concepts. The book's practical, concise approach will also make it a useful handbook for researchers. Up-to-date references and an accompanying solutions manual make this an ideal companion to advanced organic chemistry courses.

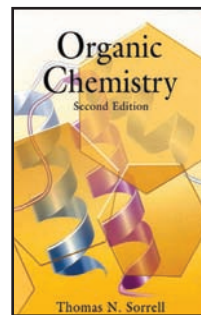
Student Supplements

Student Solutions Manual (978-0-7167-7494-5) £19.99

October 2006 804pp 275x215mm
Paperback £33.99 978-0-7167-7266-8

Organic Chemistry

2nd edition



Thomas N. Sorrell, *University of North Carolina at Chapel Hill, USA*

Published by University Science Books

The second edition of *Organic Chemistry* maintains all the innovative features of the first edition in a sleeker, slimmer, and easier-to-navigate design. This book's mechanistic approach constructs organic chemistry from

the ground up, focusing on the points of relativities, whilst still covering organic compound classes in the traditional order. Hundreds of worked examples and student exercises combine with clear writing and a sound pedagogy to make this text an exceptional choice.

Contents: The Structures of Organic Molecules - Bonding in Organic Molecules - The Conformations of Organic Molecules - The Stereochemistry of Organic Molecules - Chemical Reactions and Mechanisms - Substitution Reactions of Alkyl Halides - Substitution Reactions of Alcohols and Related Compounds - Elimination Reactions of Alkyl Halides, Alcohols and Related Compounds - Addition Reactions of Alkenes and Alkynes - Addition Reactions of Conjugated Dienes - Oxidation and Reduction Reactions - Free Radicals: Substitution and Addition Reactions - Proton and Carbon Nuclear Magnetic Resonance Spectroscopy - Determining the Structures of Organic Molecules - Organometallic Reagents and Chemical Synthesis - Asymmetric Reactions and Synthesis - The Chemistry of Benzene and its Derivatives - Nucleophilic Addition Reactions of Aldehydes and Ketones - Addition-Substitution Reactions of Aldehydes and Ketones; The Chemistry of Carbohydrates - Addition-Elimination Reactions of Aldehydes and Ketones - Addition-Elimination Reactions of Carboxylic Acids and Derivatives - The Acid-Base Chemistry of Carbonyl Compounds - The Nucleophilic Addition Reactions of Enolate Ions - Conjugate Addition Reactions of Unsaturated Carbonyl Compounds - The Chemistry of Polycyclic and Heterocyclic Arenes - Polymers and Polymerization - Amino Acids, Peptides, and Proteins - Nucleic Acids and Molecular Recognition

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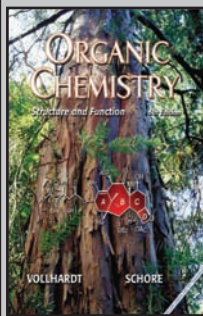
Student Solutions Manual (978-1-891389-40-5) £27.99

January 2006 988pp 287x222mm
Hardback £49.99 978-1-891389-38-2

Organic Chemistry

Structure and Function

5th edition



K. Peter C. Vollhardt and Neil C. Schore, both at University of California, USA
Published by W. H. Freeman and Company

With authors who are both accomplished researchers and educators, Vollhardt and Schore's *Organic Chemistry* is proven effective for making contemporary organic chemistry accessible and introducing cutting edge research in a fresh, student-friendly way. The fifth edition incorporates the most current chemical research, and new synthesis and green chemistry applications. The expanded media package features new and enhanced animations and video lectures.

Contents: Structure and Bonding in Organic Molecules - Structure and Reactivity: Acids and Bases, Polar and Nonpolar Molecules - Reactions of Alkanes: Bond-Dissociation Energies, Radical Halogenation, and Relative Reactivity - Cycloalkanes - Stereoisomers - Properties and Reactions of Haloalkanes: Biomolecular Nucleophilic Substitution - Further Reactions of Haloalkanes: Unimolecular Substitution and Pathways of Elimination - Hydroxy Functional Group: Alcohols: Properties, Preparation, and Strategy of Synthesis - Further Reactions of Alcohols and the Chemistry of Ethers - Using Nuclear Magnetic Resonance Spectroscopy to Deduce Structure - Alkenes and Infrared Spectroscopy - Reactions of Alkenes - Alkynes: The Carbon-Carbon Triple Bond - Delocalized Pi Systems: Investigation by Ultraviolet and Visible Spectroscopy - Benzene and Aromaticity: Electrophilic Aromatic Substitution - Electrophilic Attack on Derivatives of Benzene: Substituents Control Regioselectivity - Aldehydes and Ketones: The Carbonyl Group - Enols, Enolates and the Aldol Condensation: Unsaturated Aldehydes and Ketones - Carboxylic Acids - Carboxylic Acid Derivatives - Amines and their Derivatives: Functional Groups Containing Nitrogen - Chemistry of Benzene Substituents: Alkylbenzenes, Phenols, and Benzamines - Enolates and the Claisen Condensation: Synthesis of Dicarbonyl Compounds: Acyl Anion Equivalents - Carbohydrates: Polyfunctional Compounds in Nature - Heterocycles: Heteroatoms in Cyclic Organic Compounds - Amino Acids, Peptides, Proteins, and Nucleic Acids: Nitrogen-Containing Polymers in Nature - MCAT Questions - Answers to Exercises

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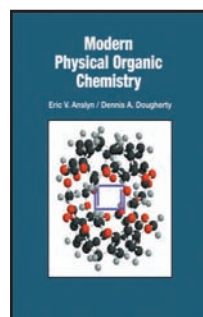
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Printed Testbank (978-0-7167-2565-7)
Overhead Transparencies (978-0-7167-6195-2)

March 2006	1203pp	261x208mm
Hardback	£43.99	978-0-7167-7235-4



Modern Physical Organic Chemistry



Eric V. Anslyn, University of Texas, USA and Dennis A. Dougherty, California Institute of Technology, USA
Published by University Science Books

'Spectacular! Congratulations! I plan to recommend it to all of my research group members and to those students in my class who are getting hooked on organic chemistry. This is

going to be a winner.' - Peter Vollhardt, University of California at Berkeley, USA

This is the first modern textbook to make explicit the many connections between physical organic chemistry and critical fields such as organometallic chemistry, materials chemistry, bioorganic chemistry, and biochemistry. In addition to covering the core areas of physical organic chemistry - structure and mechanism - the book escorts the reader into a field that has been thoroughly updated in recent times. The foundations and applications of modern computational methods are also developed. Written by two distinguished researchers in this field, it is suitable for advanced undergraduates or first-year graduate students. It will also serve as a landmark new reference text, and as an introduction to many of the more advanced topics of interest to modern researchers.

Student Supplements

Student Solutions Manual (978-1-891389-36-8) £24.99
Includes not only answers for each of the end-of-chapter problems, but also descriptive solutions that show how the answers are obtained. Selected problems also have 'Going Deeper' highlights that explore important issues that go beyond the solution to the problem that was asked.

August 2005	1104pp	282x222mm
Hardback	£56.99	978-1-891389-31-3



HGS Molecular Structure Model

2nd edition

Arlyn M. Myers, University of California, Berkeley, USA
Published by W. H. Freeman and Company

A superb study aid for organic chemistry texts, the *HGS Molecular Structure Model* set uses polyhedra to represent atoms and plastic connectors to represent bonds (scaled to correct bond lengths). Plastic plates representing orbital lobes are included for indicating lone pairs of electrons, radicals, and multiple bonds - a feature unique to this set.

Model Set		
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Interpretation of Mass Spectra

4th edition

Fred W. McLafferty, Cornell University, USA and Frantisek Turecek, University of Washington, USA
Published by University Science Books

'...a classic for classroom or self study...' - *International Journal of Mass Spectrometry*

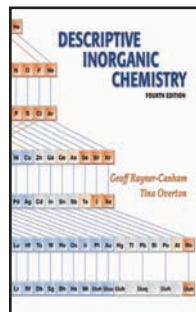
July 1993	370pp	8259x835mm
Hardback	£36.99	978-0-935702-25-5



INORGANIC CHEMISTRY

Descriptive Inorganic Chemistry

4th edition



Geoff Rayner-Canham, Sir Wilfred Grenfell College, Canada and Tina Overton, University of Hull, UK

Published by W. H. Freeman and Company

This best-selling text introduces inorganic chemistry in a less strenuous, less mathematical way. The book uses the periodic table as a basis for understanding chemical

properties and uncovering relationships between elements in different groups. It familiarizes students with the historical background of inorganic chemistry as well as with crucial applications (especially with regard to industrial processes and environmental issues). The fourth edition features expanded coverage and improved pedagogy.

Contents: The Electronic Structure of the Atom: A Review - An Overview of the Periodic Table - Covalent Bonding - Metallic Bonding - Ionic Bonding - Inorganic Thermodynamics - Acids and Bases - Oxidation and Reduction - Periodic Patterns - Hydrogen - The Group 1 Elements: The Alkali Metals - The Group 2 Elements: The Alkali Earth Metals - The Group 13 Elements - The Group 14 Elements - The Group 15 Elements - The Group 16 Elements - The Group 17 Elements: The Halogens - The Group 18 Elements: The Noble Gases - Introduction to Transition Metal Complexes - Properties of Transition Metals - The Group 12 Elements - The Rare Earth and Actinoid Elements (web only)

Student Supplements

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Student Solutions Manual (978-0-7167-6177-8) £26.99:
Solutions for all odd-numbered problems in the textbook.

Lecturer Supplements

Companion Website available at www.whfreeman.com/rayner4e

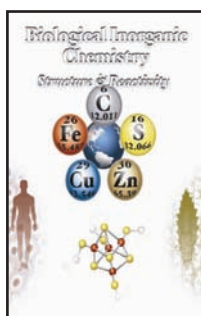
Instructor's Resource CD-ROM (978-0-7167-6176-1)

March 2006	569pp	260x207mm
Hardback	£44.99	978-0-7167-7695-6



Biological Inorganic Chemistry

Structure & Reactivity



Edited by **Ivano Bertini**, University of Florence, Italy, **Harry B. Gray**, California Institute of Technology, USA, **Edward I. Stiefel**, sometime Princeton University, USA and **Joan S. Valentine**, University of California, Los Angeles, USA

Published by University Science Books

'Excellent and comprehensive... appropriate for use both

as a textbook and as a reference.' - Kara Bren, University of Rochester, USA

This comprehensive guide to biological inorganic chemistry will serve both as an excellent course text for advanced undergraduates and postgraduates and as an accomplished reference text for anyone working in this area. Praised by specialists in the field, this sophisticated text gives both an overview of biological inorganic chemistry and presents a detailed look at metal-ion containing biological systems. It is also augmented by tutorials which appear at the end of the book.

Contents: PART A: OVERVIEWS OF BIOLOGICAL INORGANIC CHEMISTRY - Bioinorganic Chemistry and the Biogeochemical Cycles - Metal Ions and Proteins: Binding, Stability and Folding - Special Cofactors and Metal Clusters - Transport and Storage of Metal Ions in Biology - Biominerals and Biomineralization - Metals in Medicine - PART B: METAL-ION CONTAINING BIOLOGICAL SYSTEMS - Metal Ion Transport and Storage - Hydrolytic Chemistry - Electron Transfer, Respiration and Photosynthesis - Oxygen Metabolism - Hydrogen, Carbon, Nitrogen, and Sulfur Metabolism - Metalloenzymes with Radical Intermediates - Metal Ion Receptors and Signaling - PART C: TUTORIALS - Tutorial I: Cell Biology, Biochemistry and Evolution - Tutorial II: Fundamentals of Coordination Chemistry

December 2006 766pp 272x210mm
Hardback £57.99 978-1-891389-43-6

Inorganic Chemistry

Gary Wulfsberg, Middle Tennessee State University, USA

Published by University Science Books

Wulfsberg's *Inorganic Chemistry* is the ideal primary textbook for advanced undergraduate inorganic chemistry courses.

Lecturer Supplements

Instructor's Solutions Manual, a video and a CD with the figures from the book are available on request from the publishers at their website www.uscibooks.com

March 2000 978pp 274x210mm
Hardback £49.99 978-1-891389-01-6

Principles of Bioinorganic Chemistry

Stephen J. Lippard, Massachusetts Institute of Technology, USA and **Jeremy M. Berg**, Johns Hopkins University School of Medicine, USA

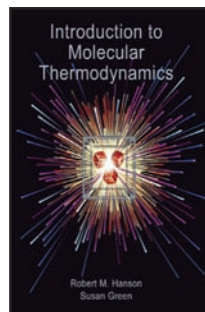
Published by University Science Books

'...an important contribution to the understanding of biochemical systems.' - *Cell Biochemistry and Function*

September 1994 411pp 261x32mm
Hardback £54.99 978-0-935702-72-9

PHYSICAL CHEMISTRY

Introduction to Molecular Thermodynamics



Robert M. Hanson and **Susan Green**, both at St. Olaf College, USA

Published by University Science Books

Starting with just a few basic principles of probability and the distribution of energy, this book takes students on an adventure into the inner workings of the molecular world like no other. Made to fit into first-year chemistry or

as a supplement for more advanced learners, the book takes the reader from probability to Gibbs energy and beyond, following a logical step-by-step progression of ideas. Filled with examples ranging from casinos to lasers, from the 'high energy bonds' of ATP to endangered coral reefs, *Introduction to Molecular Thermodynamics* hits the mark for students and faculty alike who have an interest in understanding the world around them in molecular terms.

Key Features:

- Develops students' intuition and quantitative confidence.
- Includes chapter-ending summaries, problems and brain teasers.
- Answers to selected problems appear at the back of the book.
- Provides an assortment of helpful appendices, including Mathematical Tricks.
- Features an author website, including a PowerPoint® Introduction, an online Interactive Guide to the Book, and much more.

Student and Lecturer Supplements

Companion website available at www.stolaf.edu/depts/chemistry/imt/

Contents: Probability, Distributions, and Equilibrium - The Distribution of Energy - Energy Levels in Real Chemical Systems - Internal Energy (U) and the First Law - Bonding and Internal Energy - The Effect of Temperature on Equilibrium - Entropy (S) and the Second Law - The Effect of Pressure and Concentration on Entropy - Enthalpy (H) and the Surroundings - Gibbs Energy (G) - The Equilibrium Constant (K) - Applications of Gibbs Energy: Phase Changes - Applications of Gibbs Energy: Electrochemistry - APPENDIX A Symbols and Constants - APPENDIX B Mathematical Tricks - APPENDIX C Table of Standard Reduction Potentials - APPENDIX D Table of Standard Thermodynamic Data (25°C and 1 bar) - APPENDIX E Thermodynamic Data for the Evaporation of Liquid Water - Answers to Selected Exercises - Index

July 2008 318pp 240x190mm
Paperback £26.99 978-1-891389-49-8

Molecular Thermodynamics

Donald A. McQuarrie, University of California at Davis, USA and **John D. Simon**, Duke University, USA

Published by University Science Books

February 1999 672pp 260x178mm
Hardback £66.99 978-1-891389-05-4

Statistical Mechanics

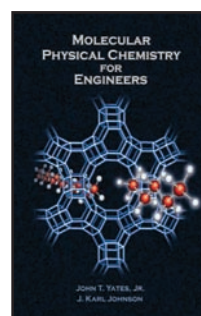
Donald A. McQuarrie, University of California at Davis, USA

Published by University Science Books

A renowned, accessible introduction to the subject, this text contains a large number of problems at the end of each chapter to help students understand the material and to introduce them to selected extensions.

June 2000 640pp 266x182mm
Hardback £70.99 978-1-891389-15-3

Molecular Physical Chemistry for Engineers



John T. Yates and **J. Karl Johnson**, both at University of Pittsburgh, USA

Published by University Science Books

'I profoundly thank and congratulate the authors for putting this book together. It is greatly needed, will be widely used, and enormously appreciated.' - Professor D. Wayne Goodman, Texas A&M, USA

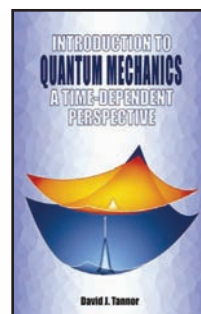
This book is designed as a one-semester undergraduate course for engineers and materials scientists who need to understand physical chemistry. Like the subject's most current teaching style, this book emphasizes the behaviour of material from the molecular point of view. It is for engineering students who have a background in chemistry and physics and in thermodynamics. A background in calculus and differential equations is assumed. Each chapter includes a vast array of exercises.

Contents: Brief Review of Some Elementary Thermodynamics: The Thermodynamic Functions - Quantum Theory: Historical Development - The Schrodinger Equation - Application of Quantum Theory to the Energetics of Electrons, Atoms, and Molecules - Statistical Mechanics: Fundamental Ideas and Applications - The Kinetic Theory of Gases - Chemical Kinetics and the Rates of Chemical Reactions in Gases and on Surfaces - Engineering Applications of Molecular Modeling

August 2007 480pp 246x189mm
Hardback £51.99 978-1-891389-27-6

Introduction to Quantum Mechanics

A Time-dependent Perspective



David L. Tannor, Weizmann Institute of Science, Israel

Published by University Science Books

'With its fresh and conceptually appealing perspective, *Introduction to Quantum Mechanics* could change how quantum mechanics is perceived and taught.' - *Science*

Introduction to Quantum

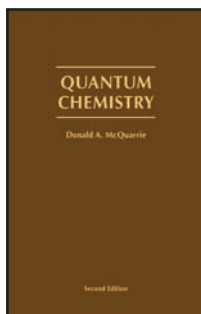
Mechanics covers quantum mechanics from a time-dependent perspective in a unified way from beginning to end. Intended for upper-level undergraduate and graduate courses this text will change the way people think about and teach quantum mechanics in chemistry and physics departments.

Contents: PART I: PICTURES AND CONCEPTS - The Time Dependent Schrödinger Equation - The Free Particle Wave Packet - The Gaussian Wavepacket - Classical-quantum Correspondence - The Wigner Representation - Correlation Functions and Spectra - One Dimensional Barrier Scattering - PART II: FORMAL THEORY AND METHODS OF APPROXIMATION - Linear Algebra and Quantum Mechanics - Approximate Solutions - Semiclassical Mechanics - Numerical Methods - PART III: APPLICATIONS - Introduction to Molecular Dynamics - Femtosecond Pulse Pair Excitation - One- and Two-Photon Electronic Spectroscopy - Strong Field Excitation - Design of Femtosecond Pulse Sequences to Control Reactions - Wavepacket Approach to Photodissociation - Wavepacket Approach to Reactive Scattering - Projects

January 2007 656pp 258x183mm
Hardback £46.99 978-1-891389-23-8

Quantum Chemistry

2nd edition



Donald A. McQuarrie,
University of California at
Davis, USA

Published by University
Science Books

The second edition of this landmark presents step-by-step SCF calculations of a helium atom in Chapter 9 and a hydrogen molecule in Chapter 10, and includes an entire chapter on the Hartree-Fock method

and post-Hartree-Fock methods for the calculation of molecular properties. Gaussian orbitals are introduced along with the common notation such as HF/STO-6G and HF/6-31G**. Configuration interaction, coupled-cluster theory and density functional theory are discussed, at least semi-quantitatively, so that the reader can be aware of the computational methods that are being used currently. Terminology such as CISD, CCSD, and BLPY/6-31G* is introduced and hands-on molecular calculations using computational chemistry programs such as Gaussian and WebMo for a variety of molecules are presented. The book also uses problems to encourage the use of an invaluable National Institute of Science and Technology (NIST) website that lists experimental data and the results of various ab initio calculations for hundreds of molecules. Other changes include the discussion of molecular spectroscopy throughout the chapters on the harmonic oscillator and the rigid-rotator. The hydrogen atom, along with its electronic spectroscopy, is discussed in a separate chapter. In a chapter devoted entirely to multielectron atoms, a website for Hartree-Fock atomic orbitals is introduced. After learning the structure of these atomic orbitals, they are used to calculate atomic properties for multielectron atoms. This edition also includes a series of short MathChapters throughout the book to help students focus on the physical principles being explained rather than struggling with the underlying mathematics. As with the first edition, the book assumes a prerequisite of one year of calculus with no required knowledge of differential equations. Each chapter includes a broad range of problems and exercises.

Student Supplements

Solutions Manual (978-1-891389-52-8) £37.99: Contains detailed solutions to all problems in the main text.

Lecturer Supplements

The art and figures from the textbook are available online by request via the publisher's website at www.uscibooks.com

October 2007 Hardback	736pp £54.99	241x170mm 978-1-891389-50-4	
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Physical Chemistry

A Molecular Approach

Donald A. McQuarrie, University of California at Davis, USA and John D. Simon, Duke University, USA

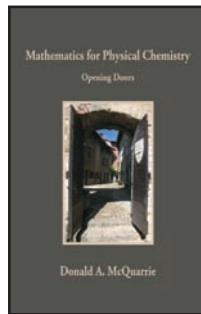
Published by University Science Books

'McQuarrie and Simon have developed an excellent modern physical chemistry course that should inspire us to rethink our curriculum.' - *Journal of Chemical Education*

August 1997 Hardback	136pp £68.99	261x179mm 978-0-935702-99-6	
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Mathematics for Physical Chemistry

Opening Doors



Donald A. McQuarrie,
University of California at
Davis, USA

Published by University
Science Books

A wonderful quotation advises students to listen carefully the moment they decide to take no more mathematics courses, as they might be able to 'hear the sound of closing doors'.

This text, written by best-selling author Donald McQuarrie, keeps doors open to undergraduate and even graduate chemistry students who need a quick review of the mathematical methods used throughout chemistry. The chapters provide students with concise reviews of mathematical topics, discussing only the minimal amount that students need to know. By reading these reviews before the maths is applied to physical chemical problems, a student will be able to spend less time worrying about the math and more time learning the physical chemistry. This book can also be used as a supplement with any traditional textbook on physical or quantum chemistry.

Key Features

- Focus on clear, mathematical descriptions, written by a chemist for chemists.
- Includes 23 short chapters, each one designed to be read in a single sitting.
- Presents mathematical material at a practical level with an emphasis on applications to physical problems.
- Contains examples to illustrate the techniques being discussed.
- Features over 600 problems, most of which have answers at the end of the book.

Contents: Functions of a Single Variable: Differentiation - Functions of a Single Variable: Integration - Series and Limits - Functions Defined as Integrals - Complex Numbers - Differential Equations - Power Series Solutions of Differential Equations - Orthogonal Polynomials - Fourier Series - Fourier Transforms - Operators - Functions of Several Variables - Vectors - Coordinate Systems - The Classical Wave Equation - The Schrödinger Equation - Determinants - Matrices - Matrix Eigenvalue Problems - Vector Spaces - Probability - Statistics - Numerical Methods

July 2008 Paperback	352pp £26.99	240x190mm 978-1-891389-56-6	
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Informational Biopolymers of Genes and Gene Expression

R.D. Blake, University of Maine, USA

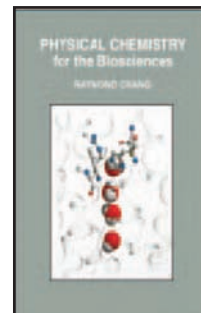
Published by University Science Books

Full of novel insights informed by years of research and teaching, this text examines the biophysics and biochemistry of nucleic acids and proteins. This book carves out the dynamic interface between chemistry and molecular biology, and provides a detailed picture of nucleic acids and proteins, their structures, biological properties, and origins and evolution.

Contents: Introduction to the Informational Biopolymers - Forces Within and Between Biopolymers - Proteins - Covalent Features of the Nucleic Acids - Structure, Synthesis and Function of RNA - The Preponderance of Ribosomal, Transfer, and Small Nuclear RNA in Cells - Secondary Structure of Duplex DNA - Primary Sequences of DNA - Interactions of Water and Cations With DNA, Integral Components of the Native Conformation - Structures and Functional Interactions of Proteins with DNA - Cellular Replication of DNA - Mutations and Unscheduled Decay, Reactivity and Interactions of DNA - Repair and Recombination of DNA - Prebiotic Origins

March 2005 Hardback	778pp £64.99	259x183mm 978-1-891389-28-3	
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Physical Chemistry for the Biosciences



Raymond Chang, Williams
College, USA

Published by University
Science Books

'Raymond Chang has flawlessly condensed the fundamental concepts of Physical Chemistry clearly and concisely in a one-semester text, giving insightful illustrations that make intuitive sense to the

reader.' - Raymond Esquerre, San Francisco State University, USA

This book is ideal for use in a one-semester introductory course in physical chemistry for students of life sciences. It aims to emphasize the understanding of physical concepts, rather than focus on precise mathematical development or on actual experimental details. Assuming only basic skills of differential and integral calculus for understanding the equations, and containing end-of-chapter problems with both physiochemical and biological applications, it provides an accessible and useful guide.

Contents: Introduction - Properties of Gases - The First Law of Thermodynamics - The Second Law of Thermodynamics - Solutions - Chemical Equilibrium - Electrochemistry - Acids and Bases - Chemical Kinetics - Enzyme Kinetics - Quantum Mechanics and Atomic Structure - The Chemical Bond - Intermolecular Forces - Spectroscopy - Photochemistry and Photobiology - Macromolecules - Appendices - Glossary - Answers to Even-Numbered Computational Problems

Student Supplements

Solutions Manual (978-1-891389-39-9) £24.99: Provides detailed solutions to all even-numbered problems from the book.

Lecturer Supplements

Instructor's Manual (978-1-891389-42-9): Provides detailed solutions to every other problem from the book.

February 2005 Hardback	678pp £39.99	274x208mm 978-1-891389-33-7	
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Physical Chemistry for the Chemical and Biological Sciences

Raymond Chang, Williams College, USA

Published by University Science Books

'This book offers an alternative approach to physical chemistry that is particularly well suited for those who want to pursue a course of study more focused on the biological sciences.' - *Journal of Chemical Education*

A wealth of applications to biological problems is included, along with numerous chapter-ending exercises.

Lecturer Supplements

Problems and Solutions Manual (978-1-891389-11-5)

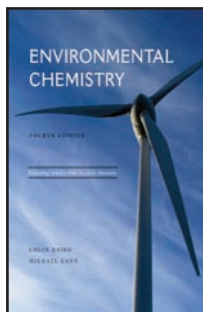
May 2000 Hardback	1018pp £50.99	273x207mm 978-1-891389-06-1	
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ENVIRONMENTAL CHEMISTRY

Environmental Chemistry



4th edition



Colin Baird, *University of Western Ontario, Canada* and Michael Cann, *University of Scranton, USA*
Published by W. H. Freeman and Company
Environmental Chemistry explores the relationship between chemistry and the environment from the chemical viewpoint. The book covers a wide range of subjects including energy use, toxicology,

environmental estrogens, groundwater and wastewater purification, and hazardous domestic disposal.

New to this Edition

- *Scientific American* Feature Articles.
- Updated Green Chemistry cases - including new cases on the use of ionic liquids and the production of biodiesel.
- Updated Environmental Instrumentation Analysis boxes - including a new box on the widespread use of GC/MS for pesticide sampling.
- Expanded coverage of soil chemistry, farming applications, bio-engineering, biotechnology.
- New Part and Chapter Openers, that connect content to broader green chemistry topics, outline concepts and methods, and help students prepare for the material ahead.

Contents: PART I: ATMOSPHERIC CHEMISTRY AND AIR POLLUTION - Stratospheric Chemistry: The Ozone Layer - The Ozone Holes - The Chemistry of Ground-Level Air Pollution - The Environmental and Health Consequences of Polluted Air - Outdoors and Indoors - The Detailed Chemistry of the Atmosphere - PART II: ENERGY AND CLIMATE CHANGE - The Greenhouse Effect - Fossil-Fuel Energy, CO₂ Emissions, and Global Warming - Renewable Energy, Alternative Fuels, and the Hydrogen Economy - Radioactivity, Radon, and Nuclear Energy - PART III: TOXIC ORGANIC COMPOUNDS - Pesticides - Dioxins, Furans, and PCBs - Other Toxic Organic Compounds of Environmental Concern - PART IV: WATER CHEMISTRY - The Chemistry of Natural Waters - The Pollution and Purification of Water - PART V: METALS, SOILS, SEDIMENTS, AND WASTE DISPOSAL - Toxic Heavy Metals - Wastes, Soils, and Sediments

Student Supplements

Companion Website available at www.whfreeman.com/baird4e
Includes: Interactive Case Studies that let students explore current environmental controversies; Things You Can Do to Help Interactive Exercises; further reading; and related Websites for each chapter of the book.

Student Solutions Manual (978-1-4292-1005-8) £28.99: Includes worked out solutions for all problems and exercises in the book.

Lecturer Supplements

Companion Website available at www.whfreeman.com/baird4e
Includes: PowerPoint® slides of all art, tables and figures from the book, plus access to all student resources.

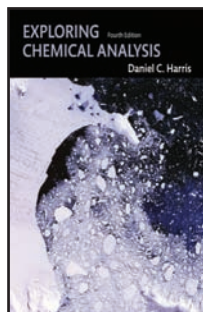
April 2008 650pp 239x195mm
Hardback £45.99 978-1-4292-0146-9

ANALYTICAL CHEMISTRY

Exploring Chemical Analysis



4th edition



Daniel C. Harris, *Michelson Laboratory, USA*
Published by W. H. Freeman and Company
Exploring Chemical Analysis provides an ideal one-term text for non-chemistry undergraduates. Its coverage of analytical and problem-solving methods teaches students how to understand analytical results and how to use

quantitative manipulations, preparing them for the problems they will encounter in fields from biology to chemistry to geology.

New to this Edition

- New Applications throughout the book include: effects of atmospheric carbon dioxide on the marine ecosystem; estimation of drug use from analytical measurements of river water; biochemical measurements with a nanoelectrode; systematic error in atmospheric ozone measurements; nutrition labels for trans fat in foods; acid-base chemistry of cocaine; nitrogen analysis of adulterated animal food; carbonate ion-selective electrode for seawater measurements; ammonium ion-selective microelectrode for river sediment; application of biological oxygen demand measurement; electrolytic treatment of wastewater; oxygen microelectrode for river sediment and many more.
- New topics in this edition include 'green' chemistry, Grubbs test for outliers (replacing the Q test), gravimetric titrations, acidity of metal ions, pictorial description for predicting the direction of an electrochemical reaction, and the charged aerosol detector for liquid chromatography.
- A short 'Test Yourself' question has been added at the end of each worked example.

Contents: Chemical Measurements - Tools of the Trade - Math Toolkit - Statistics - Quality Assurance and Calibration Methods - Good Titrations - Gravimetric and Combustion Analysis - Introducing Acids and Bases - Buffers - Acid-Base Titrations - Polyprotic Acids and Bases - A Deeper Look at Chemical Equilibrium - EDTA Titrations - Electrode Potentials - Electrode Measurements - Redox Titrations - Instrumental Methods in Electrochemistry - Let There Be Light - Spectrophotometry: Instruments and Applications - Atomic Spectroscopy - Principles of Chromatography - Gas and Liquid Chromatography - Chromatographic Methods and Capillary Electrophoresis - Experiments

Student Supplements

Companion Website available at www.whfreeman.com/exploringchem
Provides instructions for laboratory experiments, a list of analytical chemistry experiments from the *Journal of Chemical Education*, and chapter quizzes.

Solutions Manual (978-1-4292-1004-1) £30.99: Includes solutions to all problems found in the textbook.

Lecturer Supplements

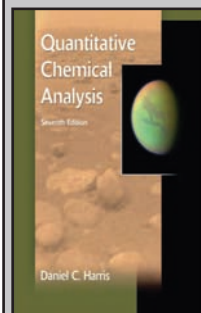
Companion Website available at www.whfreeman.com/exploringchem

July 2008 640pp 253x200mm
Hardback £40.99 978-1-4292-0147-6

Quantitative Chemical Analysis



7th edition



Daniel C. Harris, *Michelson Laboratory, USA*
Published by W. H. Freeman and Company

This text continues to be the top selling and favourite textbook for analytical chemistry. It offers a consistently modern portrait of the tools and techniques of chemical analysis, incorporating real data, spreadsheets, and a wealth of applications, all presented in a witty, personable style that engages students without compromising the science. The seventh edition has been thoroughly revised with increased coverage of mass spectrometry and now is partnered by a new interactive website.

Contents: The Analytical Process - Measurements - Tools of the Trade - Experimental Error - Statistics - Quality Assurance and Calibration Methods - Chemical Equilibrium - Let the Titrations Begin - Activity and the Systematic Treatment of Equilibrium - Monoprotic Acid-Base Equilibria - Polyprotic Acid-Base Equilibria - Acid-Base Titrations - EDTA Titrations - Advanced Topics in Chemical Equilibrium - Fundamentals of Electrochemistry - Electrodes and Potentiometry - Redox Titrations - Electroanalytical Techniques - Fundamentals of Spectrophotometry - Applications of Spectrophotometry - Spectrophotometers - Atomic Spectroscopy - Mass Spectrometry - Introduction to Analytical Separations - Gas Chromatography - High Performance Liquid Chromatography - Chromatographic Methods and Capillary Electrophoresis - Gravimetric and Combustion Analysis - Sample Preparation - Experiments (on the Website)

Student Supplements

Companion Website available at www.whfreeman.com/qca7e

Solutions Manual (978-0-7167-7260-6) £29.99

Lecturer Supplements

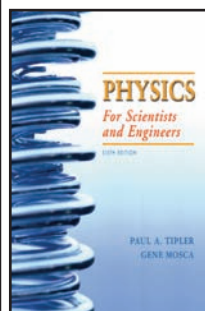
Companion Website available at www.whfreeman.com/qca7e

July 2006 1008pp 283x236mm
Hardback £45.99 978-0-7167-7694-9

Physics for Scientists and Engineers

6th edition

HIGHLIGHT



Paul A. Tipler, formerly Oakland University, USA and **Gene M. Tosca**, formerly United States Naval Academy, USA

Published by W. H. Freeman and Company

This text has set the standard in introductory physics courses for clarity, accuracy, and precision. The sixth edition offers a completely integrated text and media solution that will enable students to learn most effectively and professors to teach most efficiently.

New to this Edition

- New strategic problem-solving approach—examples now follow a *Picture, Solve and Check* format.
- Integrated Math Tutorial.
- New pedagogy to improve conceptual understanding.
- New “Physics Spotlights” feature cutting-edge topics that help students relate theory to real-world technologies.

Contents: Measurement and Vectors - PART I: MECHANICS - Motion in One Dimension - Motion in Two and Three Dimensions - Newton's Laws - Additional Applications of Newton's Laws - Work and Kinetic Energy - Conservation of Energy - Conservation of Linear Momentum - Rotation - Angular Momentum - Special Relativity - Gravity - Fluids - PART II: OSCILLATIONS AND WAVES - Oscillations - Travelling Waves - Superposition and Standing Waves - PART III: THERMODYNAMICS - Temperature and Kinetic Theory of Gases - Heat and the First Law of Thermodynamics - The Second Law of Thermodynamics - Thermal Properties and Processes - PART IV: ELECTRICITY AND MAGNETISM - The Electric Field I: Discrete Charge Distributions - The Electric Field II: Continuous Charge Distributions - Electric Potential - Capacitance - Electric Current and Direct-Current Circuits - The Magnetic Field - Sources of the Magnetic Field - Magnetic Induction - Alternating-Current Circuits - Maxwell's Equations and Electromagnetic Waves - PART V: LIGHT - Properties of Light - Optical Images - Interference and Diffraction - PART VI: MODERN PHYSICS: QUANTUM MECHANICS, RELATIVITY, AND THE STRUCTURE OF MATTER - Wave-Particle Duality and Quantum Physics - Applications of the Schrödinger Equation - Atoms - Molecules - Solids - Relativity - Nuclear Physics - Elementary Particles and the Beginning of the Universe - APPENDICES - SI Units and Conversion Factors - Numerical Data - Periodic Table of Elements - Math Tutorial - Answers to Odd-Numbered End-of-Chapter Problems

Student Supplements

Student Solutions Manual: Vol. 1: Ch 1-20 (978-1-4292-0302-9) £25.99/Vol. 2: Ch 21-33 (978-1-4292-0303-6) £22.99/Vol. 3: Ch 34-41 (978-1-4292-0301-2) £20.99
Study Guide: Vol. 1: Ch 1-20 (978-0-7167-8467-8) £19.99/Vol. 2: Ch 21-33 (978-1-4292-0410-1) £19.99/Vol. 3: Ch 34-41 (978-1-4292-0411-8) £15.99

Lecturer Supplements

Companion Website available at www.whfreeman.com/tiplerphysics6e

Instructor Resource CD-ROM: Vol. 1: Ch 1-20 (978-07167-8470-8)/Vol. 2: Ch 21-33 (978-1-4292-0268-8)/Vol. 3: Ch 34-41 (978-1-4292-0267-1)

Instructor's Answer Booklet with Solution CD-ROM: Vol. 1: Ch 1-20 (978-0-7167-8479-1)/Vol. 2: Ch 21-33 (978-1-4292-0457-6)/Vol. 3: Ch 34-41 (978-1-4292-0461-3)

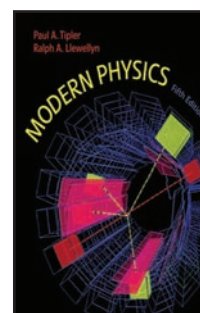
Testbank CD-ROM: Vol. 1: Ch 1-20 (978-0-7167-8478-4)/Vol. 2: Ch 21-33 (978-1-4292-0515-3)/Vol. 3: Ch 34-41 (978-1-4292-0514-6)

Extended (Ch 1-41, R) September 2007	1356pp	275x230mm	Hardback	£44.99	978-1-4292-0265-7
Standard (Ch 1-33, R) June 2007	1172pp	275x230mm	Hardback	£41.99	978-1-4292-0124-7
Or available in three paperback volumes:					
Volume 1: Mechanics/Oscillations and Waves/Thermodynamics (Ch 1-20, R)				£39.99	978-1-4292-0132-2
Volume 2: Electricity and Magnetism/Light (Ch 21-33)				£39.99	978-1-4292-0133-9
Volume 3: Elementary Modern Physics (Ch 34-41)				£24.99	978-1-4292-0134-6

Modern Physics



5th edition



Paul A. Tipler, formerly Oakland University, USA and **Ralph A. Llewellyn**, University of Central Florida, USA

Published by W. H. Freeman and Company

Tipler and Llewellyn's acclaimed text guides students through the foundations and wide ranging applications of modern physics with the utmost clarity,

without sacrificing scientific integrity. Continued into the fifth edition are the superb explanatory style, the up-to-date topical coverage, and the Web enhancements that gained earlier editions worldwide recognition.

New to this Edition

- More streamlined chapter on Nuclear Physics (Chapters 11 and 12 from the fourth edition have been combined).
- Extensively revised Particle Physics chapter, brought up-to-date featuring the highly successful Standard Model.
- Extensively rewritten Astrophysics/Cosmology chapter, reflecting current scientific understanding. Previously only provided online, this chapter is now incorporated into the print text.
- New study aid, the Classical Concept Review, has been added to the website and is integrated into the textbook.

Contents: PART I: RELATIVITY AND QUANTUM MECHANICS: THE FOUNDATION OF MODERN PHYSICS - Relativity I - Relativity II - Quantization of Charge, Light, and Energy - The Nuclear Atom - The Wavelike Properties of Particles - The Schrödinger Equation - Atomic Physics - Statistical Physics - PART II: APPLICATIONS - Molecular Structure and Spectra - Solid State Physics - Nuclear Physics - Particle Physics - Astrophysics and Cosmology - APPENDICES - Table of Atomic Masses - Mathematical Aids - Electron Configurations - Fundamental Physical Constants - Conversion Factors - Nobel Laureates in Physics

Student Supplements

Companion Website available at www.whfreeman.com/tiplermodernphysics5e

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December 2007 700pp 260x205mm
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Thermal Physics



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Numerous real-world problems and examples, chapter outlines and summaries, and clarity of presentation make this an effective text for upper division students in physics, electrical engineering and other sciences.

Student and Lecturer Supplements

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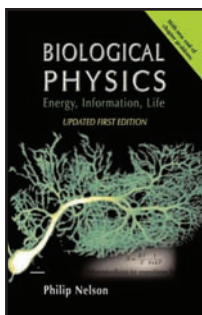
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Companion Website available at
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Biological Physics

Energy, Information, Life

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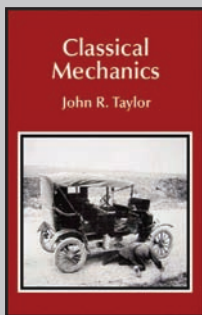
Philip Nelson, *University of Pennsylvania, USA*
Published by W. H. Freeman and Company

This text focuses on new results in molecular motors, self-assembly, and single-molecule manipulation that have revolutionized the field in recent years, and integrates these topics with classical results. Nelson also

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August 2007 600pp 239x193mm
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Classical Mechanics



John R. Taylor, *University of Colorado, USA*
Published by University Science Books

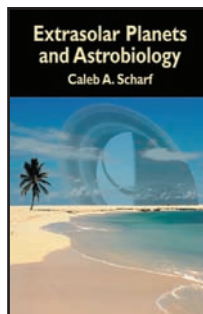
'The book is excellent. The core of a truly superb mechanics course is covered in Taylor's text.'
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John Taylor has brought to *Classical Mechanics*, all of the clarity and insight that made his *Introduction to Error Analysis* a best-selling text. *Classical Mechanics* is intended for students who have studied some mechanics in an introductory physics course. It is a thorough and very readable introduction to a subject that is four hundred years old but as exciting today as ever. Taylor manages to convey that excitement as well as deep understanding and insight.

September 2004 786pp 262x182mm
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ASTRONOMY/COSMOLOGY

Extrasolar Planets and Astrobiology



Caleb A. Scharf, *Columbia University, USA*

Published by University Science Books

'Scharf's coverage of exoplanets is quite wonderful and will be very valuable for classes.'
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This book offers an advanced introduction to the increasingly robust fields of extrasolar planets and astrobiology. No other text currently available applies this level of mathematics and physics, while also providing an extensive grounding in key issues of chemistry, biology, and geophysics. With extensive references to the literature and chapter-ending exercises, this book can be used as the core text for teaching undergraduate or introductory graduate level courses. The text also provides astrobiologists with an indispensable 'User's Manual' when quick reference to key mathematical and physical techniques is needed. A continually updated online component, fully cross-referenced with the text, is also available.

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Student and Lecturer Supplements

Companion Website available at
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October 2008 490pp 240x190mm
Hardback £47.99 978-1-891389-55-9

Discovering the Essential Universe

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Neil F. Comins, *University of Maine, USA*
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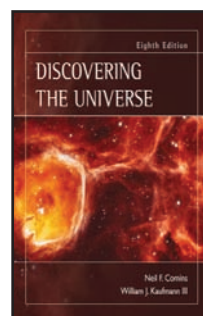
Student Supplements

Companion Website at www.whfreeman.com/deu3e

March 2006 290pp 276x230mm
Paperback £37.99 978-0-7167-4595-2

Discovering the Universe

8th edition



Neil F. Comins, *University of Maine, USA* and William J. Kaufmann, *sometime San Diego State University, USA*

Published by W. H. Freeman and Company

Carried along by the book's vibrant main theme, the process of scientific discovery, readers of *Discovering the Universe* will encounter spectacular sights, landmark experiments,

and recent discoveries, while learning to avoid the pitfalls created by common misconceptions about astronomy. The eighth edition furthers the book's legacy for presenting concepts clearly and accurately while providing all the pedagogical tools to make the learning process memorable.

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- New coverage of the planets based on the new classification scheme for objects in the solar system.
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- Margin questions encourage students to test themselves about important concepts.
- Margin photos connect concepts to their everyday applications in life.

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May 2008 544pp 276x216mm
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P. Kenneth Seidelmann, *University of Virginia, USA*
Published by University Science Books

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June 2006 752pp 228x164mm
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Universe

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Roger A. Freedman, *University of California, Santa Barbara, USA* and **William J. Kaufmann**, *sometime, San Diego State University, USA*
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Now in its eighth edition, *Universe* continues to clearly present the exciting discoveries in astronomy. In response to past reviews, there is more emphasis on

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Physics and Chemistry of the Interstellar Medium



Sun Kwok, *University of Hong Kong, Hong Kong*
Published by University Science Books

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2nd edition

Donald E. Osterbrock, *sometime University of California at Santa Cruz, USA* and **Gary J. Ferland**, *University of Kentucky, USA*

Published by University Science Books

This is a graduate-level text and reference book on gaseous nebulae, nova and supernova remnants, and the emission-line regions in Seyfert galaxies, radio galaxies, quasars, and other types of active galactic nuclei. Much of the new data and many of the new images are from the Hubble Space Telescope and some of the largest ground-based telescopes in the world. Two wholly new chapters have been added, one on infrared astronomy and the other on X-ray astronomy, reflecting the great advances in these fields. This edition will be valuable to anyone seriously interested in astrophysics.

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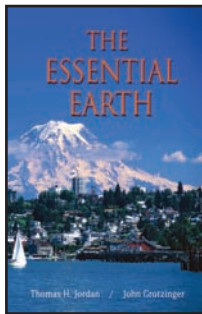
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December 2008 608pp 297x210mm
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Thomas H. Jordan, University of Southern California, USA and John Grotzinger, California Institute of Technology, USA
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March 2008 384pp 276x216mm
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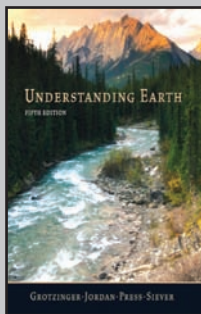
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Understanding Earth



5th edition



John Grotzinger, Massachusetts Institute of Technology, USA, Thomas H. Jordan, University of Southern California, USA, Frank Press, Carnegie Institute of Washington, USA and Raymond Siever, Harvard University, USA
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Understanding Earth - always the leader in innovation - continues to

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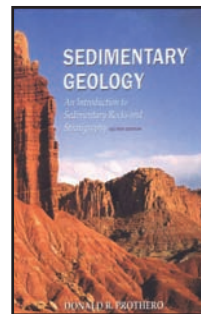
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Sedimentary Geology

An Introduction to Sedimentary Rocks and Stratigraphy

2nd edition



Donald R. Prothero, Occidental College, Los Angeles, USA and Fred Schwab, Washington and Lee University, USA

Published by W. H. Freeman and Company

This is an accessible introductory text for geology students, encompassing both sedimentary rocks and stratigraphy.

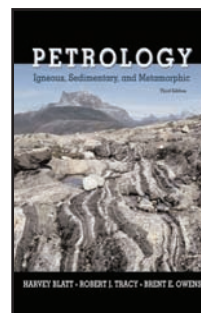
Sedimentary Geology utilizes important current research in tectonics and sedimentation and focuses on crucial geological principles. The text covers a wide range of topics, including trace fossils, mudrocks, diagenetic structures, and seismic stratigraphy. Contributions from chemistry, physics and structure are drawn upon throughout the book.

October 2003 600pp 283x222mm
Hardback £76.99 978-0-7167-3905-0

Petrology

Igneous, Sedimentary, and Metamorphic

3rd edition



Harvey Blatt, Hebrew University of Jerusalem, Israel, Robert J. Tracy, Virginia Polytechnic Institute, USA and Brent E. Owens

Published by W. H. Freeman and Company

The third edition of *Petrology* successfully builds upon the strengths of its predecessor, but now also includes fresh and engaging features to

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December 2005 530pp 282x221mm
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Michael Foote, *University of Chicago, USA* and Arnold I. Miller, *University of Cincinnati, USA*

Published by W. H. Freeman and Company

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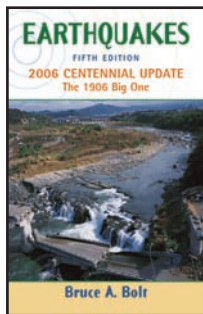
Contents: The Nature of the Fossil Record - Growth and Form - Populations and Species - Systematics - Evolutionary Morphology - Biostratigraphy - Evolutionary Rates and Trends - Global Diversity and Extinctions - Paleoecology and Paleobiogeography - Multidisciplinary Studies in Paleontology

November 2006 480pp 283x221mm
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Earthquakes

2006 Centennial Update: The 1906 Big One

5th edition



Bruce A. Bolt, *University of California, USA*
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New to this Edition

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- This *2006 Centennial Update* version also includes a bonus segment written especially for the anniversary of the 1906 San Francisco earthquake.

Student Supplements

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Earth Inquiry: Earthquakes & Plate Boundaries (978-0-7167-4950-9) £12.99

November 2007 320pp 234x155mm
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Quantitative Seismology

Theory and Methods

2nd edition

Keiiti Aki, *sometime University of Southern California, USA* and Paul G. Richards, *Columbia University, USA*
Published by University Science Books

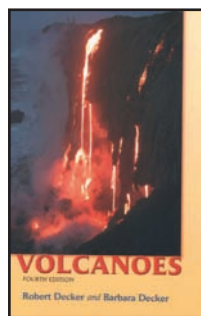
'An excellent study and reference book for seismologists.' - *The Leading Edge*

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September 2002 700pp 260x180mm
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Volcanoes

4th edition



Robert Decker, *Dartmouth College, USA* and Barbara Decker

Published by W. H. Freeman and Company

The accessible introduction to volcanology returns, combining excellent science with clear language and true stories. Enlivened by first-hand descriptions and stunning photographs,

this edition now has three new chapters on Volcanoes in the solar system, the Pinatubo Volcano and the Yellowstone National Park. There has also been detailed updating throughout with greater coverage of calderas, all-new coverage on Mount St. Helens and the introduction of a new companion website.

Student and Lecturer Supplements

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Earth's Climate

NEW

Past and Future

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William F. Ruddiman, *University of Virginia, USA*

Published by W. H. Freeman and Company

Written from a multidisciplinary perspective by one of the field's preeminent researcher/instructors, the text summarizes the major lessons to be learned from 550 million years of climate

changes, as a way of evaluating the climatological impact on and by humans in this century. The book also looks ahead to possible effects during the next several centuries of fossil fuels use. This edition incorporates coverage of climatological events and research discoveries in the seven years since the first edition, most importantly the now broadly accepted understanding that humans play a major role in warming the planet.

New to this Edition

- Streamlined presentation.
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- New 'In Summary' Statements.
- Reorganized Part V on Historical and Future Climate Change.
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Student Supplements

Companion Website available at www.whfreeman.com/ruddiman2e
Features annotated Web Links and Chapter 2 from the First Edition, 'Earth's Climate System Today'.

Lecturer Supplements

Companion Website available at www.whfreeman.com/ruddiman2e

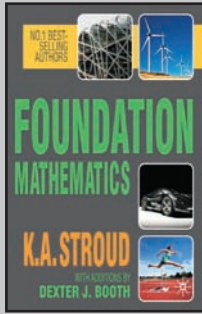
Testbank CD-ROM (978-1-4292-1785-9)

December 2007 465pp 276x216mm
Paperback £58.99 978-0-7167-8490-6

GENERAL MATHEMATICS

KEY NEW TITLE

Foundation Mathematics NEW



K.A. Stroud, formerly Principal Lecturer, Department of Mathematics, Coventry University, UK with Dexter J. Booth, formerly University of Huddersfield, UK

Published by Palgrave Macmillan

Student reviews of *Engineering Mathematics*, by the same authors:

'Well written, well laid out and easy to follow, it is an absolute must.'

'All I have achieved in the field of mathematics starts with *Engineering Mathematics*.'

The most user-friendly foundation mathematics book available. Based on the Foundations section of the half million copy best-selling title *Engineering Mathematics*, this new book has been carefully adapted and broadened to cater for all students needing to improve their mathematics at pre- or early degree stage. The long-established and successful Stroud philosophy demands that students interact and 'do' the maths right from the start in a non-threatening, confidence-building way.

- Builds confidence step-by-step, starting with lots of guidance and gradually allowing the student to progress independently as they learn.
- The methodology demands that the students interact with the material, so they learn by doing the maths, not just reading about it!
- Incorporates key bite-sized chunks of *Engineering Mathematics* - adapted and extended to offer a broad appeal.
- Offers a great fit to any introductory maths course.

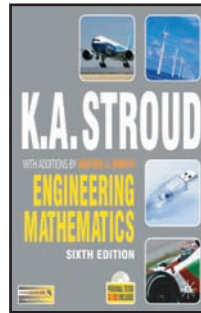
Contents: Arithmetic - Introduction to Algebra - Expressions and Equations - Graphs - Linear Equations - Polynomial Equations - Partial Fractions - Trigonometry - Functions - Matrices - Vectors - Binomial Series - Sets - Probability - Statistics - Regression and Correlation - Introduction to Differentiation - Partial Differentiation - Integration

April 2009 704pp 246x189mm
Paperback £31.99 978-0-230-57907-1

MATHEMATICS FOR SCIENCE AND ENGINEERING

Engineering Mathematics NEW

6th edition



K.A. Stroud, formerly Principal Lecturer, Department of Mathematics, Coventry University, UK with Dexter J. Booth, formerly University of Huddersfield, UK

Published by Palgrave Macmillan

Engineering Mathematics is by far the bestselling book of its kind. Its unique programmed approach takes the student through

the mathematics in an interactive, step-by-step fashion with a wealth of worked examples and exercises. It is the most comprehensive course of its type. This carefully revised sixth edition has an even more user-friendly page design. The accompanying *Personal Tutor* CD-ROM has been revised and improved. New for this edition are a series of application questions freely accessible on a companion website.

Contents: PART I: FOUNDATION TOPICS - Arithmetic - Introduction to Algebra - Expressions and Equations - Graphs - Linear Equations and Simultaneous Linear Equations - Polynomial Equations - Partial Fractions - Trigonometry - Binomial Series - Differentiation - Integration - Functions - PART II - Complex Numbers 1 - Complex Numbers 2 - Hyperbolic Functions - Determinants - Matrices - Vectors - Differentiation - Differentiation Applications 1 - Differentiation Applications 2 - Partial Differentiation 1 - Partial Differentiation 2 - Curves and Curve Fitting - Series 1 - Series 2 - Integration 1 - Integration 2 - Reduction Formulas - Integration Applications 1 - Integration Applications 2 - Integration Applications 3 - Approximate Integration - Polar Coordinates Systems - Multiple Integrals - First-order Differential Equations - Second-order Differential Equations - Introduction to Laplace Transforms - Statistics - Probability - Answers

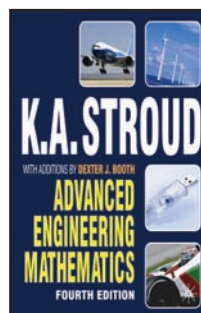
Student and Lecturer Supplements

Companion Website available at www.palgrave.com/stroud

January 2007 1288pp 246x189mm
Paperback £38.99 978-1-4039-4246-3

Advanced Engineering Mathematics

4th edition



K.A. Stroud, formerly Principal Lecturer, Department of Mathematics, Coventry University, UK with Dexter J. Booth, formerly University of Huddersfield, UK

Published by Palgrave Macmillan

This revised and expanded best-selling advanced engineering mathematics textbook includes four new topics

and extended coverage, making it a comprehensive course for all undergraduates in engineering and science from second year level onwards. Its highly successful technique-oriented approach guides the student through the development of each topic. There are hundreds of worked examples and exercises.

February 2003 1280pp 234x177mm
Paperback £36.99 978-1-4039-0312-9

Engineering Mathematics through Applications NEW

Kuldeep Singh, University of Hertfordshire, UK
Published by Palgrave Macmillan

'The unique quality of this book is the wealth of examples applying the mathematical techniques taught here. These examples span mechanics, aerodynamics, electronics, engineering, fluid dynamics and other areas of applied mathematics. These are not just the usual examples involving differential equations and equations of motion, but real and thoughtful applications that will be relevant to the student.' - Jill Russell, The Open University, UK

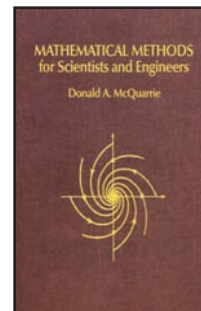
Designed for engineering undergraduates with a low level background in mathematics, the book teaches mathematics through an applications context drawing on a wide range of disciplines. The mathematics is developed through clear and easy step-by-step examples rather than formal proof, and the mathematical theory is supported by the use of technology in solving real life engineering problems. The book contains answers to all the questions.

Student and Lecturer Supplements

Companion Website available at www.palgrave.com/science/engineering/singh
Includes complete worked solutions to all the questions in the book.

February 2003 864pp 246x189mm
Paperback £35.99 978-0-333-92224-8

Mathematical Methods for Scientists and Engineers



Donald A. McQuarrie, University of California at Davis, USA

Published by University Science Books

'McQuarrie has produced a masterpiece that anyone would want to have handy when confronted with the need to perform serious mathematical analyses. It's destined to become a classic reference text.' - *Chemical and Engineering News*

Intended for upper-level undergraduate and graduate courses in chemistry, physics, math and engineering, this book is also suitable as a reference for advanced students in the physical sciences. It is logically organized and full of problems that detail every step, making it exceptionally well adapted for self-study and course use. Pedagogy includes detailed problems and examples.

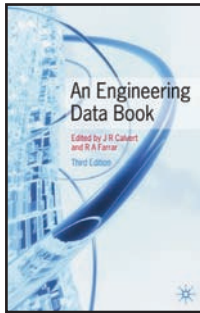
Student Supplements

Student Solutions Manual (978-1-891389-37-5) £24.99

June 2003 1184pp 240x195mm
Paperback £45.99 978-1-891389-29-0

An Engineering Data Book

3rd edition



Edited by J.R. Calvert and R.A. Farrar, both at University of Southampton, UK

Published by Palgrave Macmillan

'Clear, logical, comprehensive and well indexed.' - Matthew Harrington, *Times Higher Education*

'It is about time someone put this all together in one resource book. Well done!' - Stephen Prior, Middlesex University, UK

This indispensable companion is a ready reference for commonly required formulae and data, for use in coursework and examinations and in professional practice.

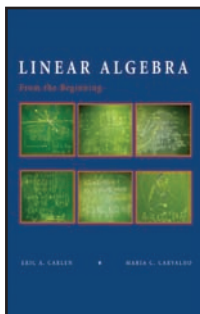
Contents: Symbols and Units - Physical Constants - Analysis - Analysis of Experimental Data - Mechanics - Properties and Mechanics of Solids - Properties of Materials - Earth and the Environment - Thermodynamics and Fluid Mechanics - Automatic Control - Electricity and Magnetism - Soil Mechanics - Structures - Symbols Index - Keyword Index

July 2008 112pp 234x156mm
Paperback £12.99 978-0-230-22033-1

ALGEBRA

Linear Algebra

From the Beginning



Eric A. Carlen, *Georgia Institute of Technology, USA* and Maria C. Carvalho, *University of Lisbon, Portugal*

Published by W. H. Freeman and Company

This first-year text is designed to prepare students for the growing prominence of linear algebra at earlier junctures across the science and engineering curriculum. It reflects the

way computers have changed the course, since having them to do the number-crunching opens up a variety of ways to solve all but the simplest linear algebra problems. This text provides more thorough explanations of the subject's fundamental ideas and of the capabilities of a selection of software packages, to help students choose the best way to solve a problem.

March 2007 504pp 277x217mm
Hardback £46.99 978-0-7167-4894-6

GEOMETRY

Euclidean and Non-Euclidean Geometries

Development and History

4th edition



Marvin Jay Greenberg, *University of California at Santa Cruz, USA*

Published by W. H. Freeman and Company

The fourth edition provides students with an overview of both classic and hyperbolic geometries, placing the work of key mathematicians and philosophers in historical context. Including

coverage on geometric transformations, models of the hyperbolic planes and pseudospheres, this text is an excellent companion to any geometry course.

New to this Edition

- Greater coverage of key events and contributors throughout history including additional information on the Pythagoreans, Plato, Euclid, Proclus, Saccheri and Bolyai.
- Clearer coverage of Models, Isomorphism of Models, Axioms of Betweenness, Axioms of Congruence, Geometry without a Parallel Axiom, Measures of Angles and Segments, Angle Sum of a Triangle, Similar Triangles, and Saccheri and Lambert Quadrilaterals.
- A new section has been added to discuss π , as well as sections on: Straightedge and Compass; Constructions; Brief Historical Remarks; Consistency; Brief History of Real Projective Geometry; Equidistance; Beltrami's Interpretation; Fruitfulness of Hyperbolic Geometry for Other Branches of Mathematics, Cosmology, and Art.
- More than 50% additional projects, plus new exercises included in every chapter.

Contents: Euclid's Geometry - Logic and Incidence Geometry - Hilbert's Axioms - Neutral Geometry - History of the Parallel Postulate - The Discovery of Non-Euclidean Geometry - Independence of the Parallel Postulate - Philosophical Implications, Fruitful Applications - Geometric Transformations - Further Results in Real Hyperbolic Geometry

Lecturer Supplements

Instructor's Guide with Solutions (978-1-4292-0683-9)

December 2007 500pp 240x170mm
Hardback £61.99 978-0-7167-9948-1

ANALYSIS

Elementary Classical Analysis

Jerrold E. Marsden, *California Institute of Technology, USA*

Published by W. H. Freeman and Company

Designed for courses in advanced calculus and introductory real analysis, the second edition strikes a balance between pure and applied mathematics, with the emphasis on techniques important to classical analysis, without vector calculus or complex analysis. The book includes detailed coverage of the foundations of the real number system and focuses primarily on analysis in Euclidean space with a view towards application. It is aimed at students in engineering and the physical sciences as well as pure mathematics.

Contents: Introduction: Sets and Functions - The Real Line and Euclidean Space - Topology of Euclidean Space - Compact and Connected Sets - Continuous Mappings - Uniform Convergence - Differentiable Mappings - The Inverse and Implicit Function Theorems and Related Topics - Fubini's Theorem and the Change of Variables Formula - Fourier Analysis - Answers to Selected Exercises

April 1993 640pp 8259x835mm
Hardback £38.99 978-0-7167-2105-5

Basic Complex Analysis

3rd edition

Jerrold E. Marsden, *California Institute of Technology, USA* and Michael J. Hoffman, *California State University at Los Angeles, USA*

Published by W. H. Freeman and Company

January 1999 600pp 243x188mm
Hardback £50.99 978-0-7167-2877-1

Guide to Analysis

2nd edition

Mary Hart, *University of Sheffield, UK* and David Towers, *University of Lancaster, UK*

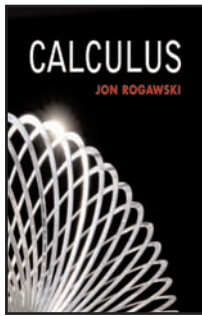
Published by Palgrave Macmillan

This text provides a rigorous introduction to analysis, which takes into account the difficulties students often face when making the transition from A-Level mathematics to this higher level. Plenty of examples are provided, some of which have full, detailed solutions, and others which encourage the student to discover and investigate the ideas themselves. This edition has two new, substantial chapters, covering integration and power series, and is updated throughout, taking into account changes in notation.

May 2001 304pp 246x189mm
Paperback £29.99 978-0-333-79449-4

CALCULUS

Calculus



Jon Rogawski, *University of California at Los Angeles, USA*

Published by W. H. Freeman and Company

This text presents calculus with solid mathematical precision but with an everyday sensibility that puts the main concepts into clear terms. It contains features such as graphical insights that enhance the

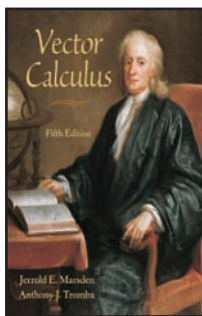
student's visual understanding, section summaries to summarize key points, and section exercise sets which are closely co-ordinated with the text. *Calculus* has been designed to be both rigorous and accessible, therefore offering the perfect balance for instructors and their students.

Contents: PreCalculus Review - Limits - Differentiation - Applications of the Derivative - The Integral - Applications of the Integral - Exponential Functions - Techniques of Integration - Further Applications of the Integral and Taylor Polynomials - Introduction to Differential Equations - Infinite Series - Parametric Equations, Polar Coordinates and Conic Sections - Vector Geometry - Calculus of Vector-Valued Functions - Differentiation in Several Variables - Multiple Integration - Line and Surface Integrals - Fundamental Theorems of Vector Analysis - Appendices - Answers to Odd-Numbered Exercises - Hints to Selected Even-Numbered Exercises

September 2007 1416pp 260x222mm
Hardback £49.99 978-1-4292-1066-9

Vector Calculus

5th edition



Jerrold E. Marsden, *California Institute of Technology, USA* and Anthony J. Tromba, *University of California at Santa Cruz, USA*

Published by W. H. Freeman and Company

Vector Calculus helps students foster computational skills and intuitive understanding with a careful balance of theory, applications,

and optional materials. This edition offers revised coverage in several areas and a new section looking at applications to Differential Geometry, Physics and Forms of Life; as well as a large number of new exercises and expansion of the book's signature Historical Notes, which help students understand how calculus evolved by profiling important mathematicians. With its contemporary balance between theory, application and historical development the fifth edition gives an insight into how mathematics progresses and is in turn influenced by the natural world.

Student Supplements
Study Guide and Solutions Manual (978-0-7167-0528-4) £22.99

Lecturer Supplements
Instructor's Resource Manual (978-0-7167-0646-5)

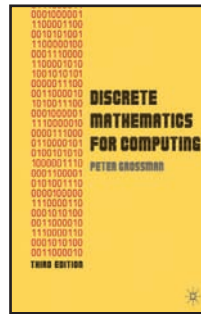
September 2003 640pp 238x190mm
Hardback £52.99 978-0-7167-4992-9

COMPUTER MATHEMATICS

Discrete Mathematics for Computing

NEW

3rd edition



Peter Grossman, *University of Melbourne, Australia*
Published by Palgrave Macmillan

This book presents the essential mathematics needed for computing in a style suitable for students with only a moderate background in the subject. Material is introduced at a gentle pace and in an informal style, without

compromising mathematical integrity. The text includes many examples of how the theory is applied to problems in computing.

New to this Edition

- A new expanded section on encryption.
- Additional exercises to illustrate key concepts.
- New exercises at a variety of levels.

Contents: List of Symbols - Introduction to Algorithms - Bases and Number Representation - Computer Representation and Arithmetic - Logic - Sets and Relations - Functions - Induction and Recursion - Boolean Algebra and Digital Circuits - Combinatorics - Introduction to Graph Theory - Trees - Number Theory - Algorithms and Computational Complexity

December 2008 328pp 246x189mm
Paperback £26.99 978-0-230-21611-2

Mathematical Structures for Computer Science

6th edition

Judith L. Gersting, *University of Hawaii, USA*
Published by W. H. Freeman and Company

The sixth edition continues to offer a pedagogically rich and intuitive introduction to discrete mathematics structures. It meets the needs of computer science majors by being both comprehensive and accessible.

Contents: Formal Logic - Proofs, Recursion, and Analysis of Algorithms - Sets, Combinatorics, and Probability - Relations, Functions, and Matrices - Graphs and Trees - Graph Algorithms - Boolean Algebra and Computer Logic - Modeling Arithmetic, Computation, and Languages - Appendix A Summation Notation - Appendix B The Logarithm Function - Answers to Practice Problems - Answers to Selected Exercises - Answers to Self Tests

Lecturer Supplements
Instructor's Solutions Manual (978-0-7167-7284-2)

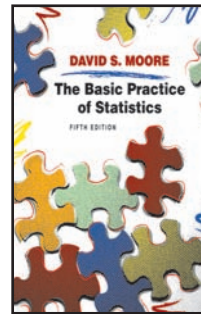
September 2006 80pp 262x210mm
Hardback £52.99 978-0-7167-6864-7

STATISTICS

The Basic Practice of Statistics

NEW

5th edition



David S. Moore, *Purdue University, USA*

Published by W. H. Freeman and Company

Recognized for its exceptional clarity and innovation, the text emphasizes major ideas and essential skills, provides experience working with real data in real settings, and uses many pedagogical devices to guide learning. Students gain confidence

by beginning with data analysis before meeting probability and probability-based inference, an arrangement that also reflects statistician's current view of the field.

New to this Edition

- New examples and exercises relate to contemporary topics, making the material relevant and interesting - including chimpanzees, obesity and daily activity, and Facebook use.
- Partially reorganized structure for greater clarity.
- Content updates throughout, including current data in the Manatees example, an optional discussion of sources of randomness, and a clearer presentation of the concept of sampling distributions.

Contents: PART I: EXPLORING DATA - Exploring Data: Variables and Distributions - Picturing Distributions with Graphs - Describing Distributions with Numbers - The Normal Distributions - Exploring Data: Relationships - Scatterplots and Correlation - Regression - Two-Way Tables - Exploring Data: Part I Review - PART II: FROM EXPLORATION TO INFERENCE - Producing Data - Producing Data: Sampling - Producing Data: Experiments - Commentary: Data Ethics - Probability and Sampling Distributions - Introducing Probability - Sampling Distributions - General Rules of Probability - Binomial Distributions - Foundations of Inference - Introduction to Inference - Thinking About Inference - From Exploration to Inference: Part II Review - PART III: INFERENCE ABOUT VARIABLES - Quantitative Response Variable - Inference About a Population Mean - Two-Sample Problems - Categorical Response Variable - Inference About a Population Proportion - Comparing Two Proportions - Inference About Variables: Part III Review - PART IV: INFERENCE ABOUT RELATIONSHIPS - Inference About Relationships - Two Categorical Variables: The Chi-Square Test - Inference for Regression - One-Way Analysis of Variance: Comparing Several Means - PART V: OPTIONAL COMPANION CHAPTERS (AVAILABLE ON THE CD AND ONLINE) - Nonparametric Tests - Statistical Process Control - Multiple Regression - Two-Way Analysis of Variance

Student Supplements
Companion Website available at www.whfreeman.com/bps5e

Study Guide (978-1-4292-2783-4) £15.99

Student CD-ROM: Included with every new copy of the book.

Lecturer Supplements
Companion Website available at www.whfreeman.com/bps5e

Instructor's Resource Manual (978-1-4292-2792-6)
Instructor's Resource CD-ROM (978-1-4292-2788-9)
Testbank CD-ROM (978-1-4292-2784-1)

March 2009 704pp 262x221mm
Hardback £46.99 978-1-4292-2426-0

Introduction to the Practice of Statistics

6th edition

HIGHLIGHT



David S. Moore, George P. McCabe and Bruce Craig, all at Purdue University, USA

Published by W. H. Freeman and Company

With its focus on data analysis, statistical reasoning, and the way statisticians actually work, *Introduction to the Practice of Statistics* has helped to revolutionize the way statistics are taught and brings the power of critical thinking and practical applications to your course. Freed from an overload of computations, students are able to go beyond the raw numbers to see what the data actually mean. The sixth edition is even more readable and flexible, updated with new content, exercises and pedagogy throughout.

New to this Edition

- Updated examples, 15% more exercises, and 50% new or revised exercises to reflect current data and a variety of topics.
- New Data Ethics section.
- Revised technology references.
- New author, Bruce Craig, is Director of the Statistical Consulting Service at Purdue University.
- Revised pedagogical features.

Contents: PART I: LOOKING AT DATA - Looking at Data: Distributions - Looking at Data: Relationships - Producing Data - PART II: PROBABILITY AND INFERENCE - Probability: The Study of Randomness - Sampling Distributions - Introduction to Inference - Inference for Distributions - Inference for Proportions - PART III: TOPICS IN INFERENCE - Analysis of Two-Way Tables - Inference for Regression - Multiple Regression - One-Way Analysis of Variance - Two-Way Analysis of Variance - ADDITIONAL CHAPTERS (AVAILABLE ON THE CD AND ONLINE) - Logistic Regression - Nonparametric Tests - Bootstrap Methods and Permutation Tests - Statistics for Quality: Control and Capability

Student Supplements

Companion Website available at www.whfreeman.com/ips6e

Includes: Interactive Applets; Data Sets in ASCII, Minitab, TI, SPSS, JMP, and Excel formats; student version of the *Electronic Encyclopedia of Statistical Examples* (EESSE); additional exercises; and companion chapters.

Study Guide and Solutions Manual (978-1-4292-1473-5) £29.99

Student CD-ROM: Included with every new copy of the book.

Lecturer Supplements

Companion Website at www.whfreeman.com/ips6e

Includes: Instructor version of the *Electronic Encyclopedia of Statistical Examples* (EESSE), customizable PowerPoint® slides, plus access to all the student web features.

Instructor's Resource CD-ROM (978-1-4292-1503-9)

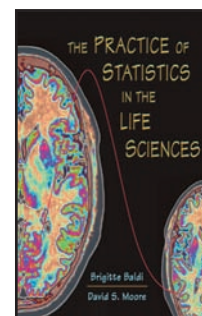
Instructor's Resource Manual with Solutions (978-1-4292-1472-8)

Testbank CD-ROM (978-14292-1859-7)

Printed Testbank (978-1-4292-1471-1)

March 2008 800pp 276x216mm
Hardback £46.99 978-1-4292-1622-7

The Practice of Statistics in the Life Sciences



Brigitte Baldi, University of California, Irvine, USA and David S. Moore, Purdue University, USA

Published by W. H. Freeman and Company

Baldi and Moore provide an accessible introduction to the uses and applications of statistics in the life sciences with a data analysis approach. *The Practice of Statistics in the Life Sciences* emphasizes

balanced content, working with real data, and mastering statistical ideas, and provides engaging life sciences examples and exercises. Data sets, examples and exercises are drawn from diverse areas of biology such as physiology, brain and behaviour, health and medicine, nutrition, ecology, and microbiology. The book is written in the same accessible style and includes the same kind of helpful pedagogy that has facilitated student success in all of David Moore's previous statistics texts.

Student Supplements

Companion Website available at www.whfreeman.com/psls

Study Guide (978-1-4292-0165-0) £18.99

Student CD-ROM: Included with every new copy of the book.

Lecturer Supplements

Companion Website available at www.whfreeman.com/psls

Instructor's Resource CD-ROM (978-14292-1862-7)

Instructor's Solutions Manual (978-1-4292-0162-9)

Testbank CD-ROM (978-1-4292-0164-3)

Printed Testbank (978-1-4292-0163-6)

April 2008 608pp 260x220mm
Hardback £44.99 978-1-4292-1876-4

Statistics: Concepts and Controversies



6th edition

David S. Moore, Purdue University, USA and William I. Notz, Ohio State University, USA

Published by W. H. Freeman and Company

The resources that statisticians use directly affect people, government and society. Opinion polls influence political opinion; statistical evidence supports medical advances. In the sixth edition of his groundbreaking text, Moore emphasizes the concepts and applications of statistics from a wide range of fields - encouraging students to see the meaning behind statistical results whilst retaining their interest. Moore's emphasis on ideas and data with minimal computation is generally acknowledged as the most effective way to teach non-mathematical students.

Student Supplements

Companion Website available at www.whfreeman.com/scc6e

Laboratory and Activities Supplement (978-0-7167-2851-1) £17.99

Lecturer Supplements

Companion Website available at www.whfreeman.com/scc6e

Instructor's Resource CD-ROM (978-0-7167-2844-3)

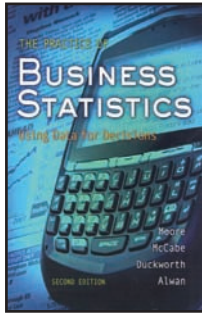
Instructor's Manual and Testbank (978-0-7167-2857-3)

Testbank CD-ROM (978-0-7167-2848-1)

February 2006 550pp 232x183mm
Paperback £36.99 978-0-7167-8636-8

The Practice of Business Statistics

2nd edition



David S. Moore, George McCabe, both at *Purdue University, USA*, **William M. Duckworth**, *Iowa State University, USA* and **Stanley L. Sclove**, *University of Illinois at Chicago, USA*, **Jay Devore**, *California Polytechnic State University, USA* and **Layth Alwan**, *University of Wisconsin-Milwaukee, USA*
Published by W. H. Freeman and Company

The second edition immerses students in the course immediately, involving them in practical, statistics-supported business decision-making from the outset. Using real data to provide a context for tackling modern business problems, it introduces a range of core ideas early - including data production and interpretation. The usefulness of statistical concepts in contemporary business, the connections between probability and inference, and the relationship between data and decisions are emphasized. From this beginning, the text revisits and builds on what students have learned, re-purposing data sets from previous examples and exercises to explore different decision models in different situations.

New to this Edition

- New data sets and exercises throughout.
- Completely redesigned for greater accessibility to students.
- New section on business ethics.
- Longer case studies.

Student Supplements

Companion Website available at www.whfreeman.com/pbs2e

Student Solutions Manual (978-0-7167-2893-1) £21.99

Lecturer Supplements

Companion Website available at www.whfreeman.com/pbs2e

Instructor's Resource CD-ROM (978-0-7167-3031-6)

Instructor's Guide with Solutions (978-0-7167-3010-1)

Test Bank CD-ROM (978-0-7167-2885-6)

March 2008	820pp	240x220mm
Hardback	£48.99	978-1-4292-2150-4

Statistical Tables

For Science, Engineering, Psychology, Business, Management and Finance

4th edition

J. Murdoch and **J.A. Barnes**, formerly *Cranfield University, UK*

Published by Palgrave Macmillan

April 1998	80pp	297x210mm
Paperback	£12.99	978-0-333-55859-1

Introduction to Error Analysis

The Study of Uncertainties in Physical Measurements

2nd edition

John R. Taylor, *University of Colorado, USA*

Published by University Science Books

July 1997	327pp	252x177mm
Paperback	£28.99	978-0-935702-75-0



Statistics for the Behavioral Sciences



Susan A. Nolan, *Seton Hall University, USA* and **Thomas E. Heinzen**, *William Paterson State University, USA*
Published by Worth Publishers

What do Florence Nightingale, a failed Antarctic expedition, the Guinness Ale Company, and the Challenger space shuttle disaster have in common? Discover the answer in this statistics

textbook. In *Statistics for the Behavioral Sciences*, Susan Nolan and Tom Heinzen convincingly convey the social power and the personal benefits of statistical reasoning while faithfully teaching its underlying mathematical principles. This book has one message: Statistics has a success story to tell. Embedding that story within each chapter makes learning statistics easier by making it more meaningful. The resulting text conforms to the traditional structure and elements of a statistics textbook, but it shifts the paradigm for teaching behavioural statistics from apology (for being so difficult) to opportunity (to create a meaningful career). Lecturers and students rave about this book.

Student Supplements

Companion Website available at www.worthpublishers.com/nolanheinzen

Study Guide & SPSS Manual (978-1-4292-0635-8) £21.99

Lecturer Supplements

Companion Website available at www.worthpublishers.com/nolanheinzen

Instructor's Resource CD-ROM (978-1-4292-0889-5)

Instructor's Resource Manual & Solutions Manual (978-1-4292-0633-4)

Testbank CD-ROM (978-1-4292-0639-6)

Printed Testbank (978-1-4292-0632-7)

December 2007	500pp	260x210mm
Hardback	£41.99	978-0-7167-5007-9

The Practice of Statistics

TI-83/89 Graphing Calculator Enhanced

3rd edition

Dan Yates, *Statistics Consultant, USA*, **David S. Moore**, *Purdue University, USA* and **Daren S. Starnes**, *Webb Schools, USA*

Published by W. H. Freeman and Company

Combining the strength of the data analysis approach and the power of technology, this edition features powerful and helpful new media supplements, enhanced teacher support materials, and full integration of the TI-83 and TI-89 graphing calculators.

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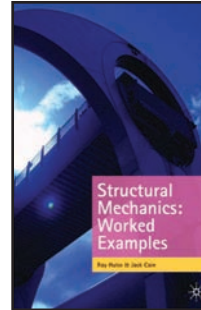
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CIVIL ENGINEERING

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Ray Hulse and **Jack Cain**, both formerly of *Coventry University, UK*

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This re-issue of a successful text provides students with brief summaries of key facts topic-by-topic and then presents a series of carefully paced and sequenced worked examples using real exam

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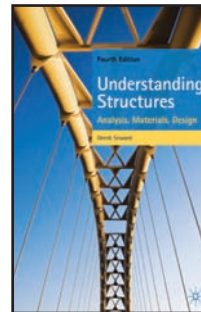
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Analysis, Materials, Design

4th edition



Derek Seward, *Lancaster University, UK*

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This bestselling introductory text for undergraduate students of civil engineering, building, surveying and architecture deals with the topics of structural analysis, materials and design, and introduces all three topics in an

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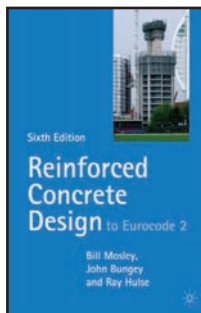
Contents: Design - Basics - Materials - Loads - Pin-jointed Trusses - Tension - Beams - Compression - Combined Axial and Bending Stresses - Torsion - Connections - Arches and Portal Frames - Foundations and Retaining Walls - Deflection - Indeterminate Structures and Components - Further Reading

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Reinforced Concrete Design

To Eurocode 2

6th edition



Bill Mosley, *Nanyang Technological Institute, Singapore*, **John Bungey**, *University of Liverpool, UK* and **Ray Hulse**, *Coventry University, UK*

Published by Palgrave Macmillan

The sixth edition provides a straightforward and practical introduction to the principles and methods used in the design of reinforced and prestressed concrete structures. The book contains many worked examples to illustrate the various aspects of design involved. Fully revised and updated to conform to the final Eurocode 2.

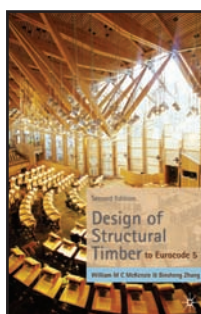
Contents: Preface - Notation - Properties of Reinforced Concrete - Limit State Design - Analysis of the Structure - Analysis of the Section - Shear, Bond and Torsion - Serviceability, Durability and Stability Requirements - Design of Reinforced Concrete Beams - Design of Reinforced Concrete Slabs - Column Design - Foundations and Retaining Walls - Prestressed Concrete - Composite Construction

June 2007 424pp 246x189mm
Paperback £37.99 978-0-230-50071-6

Design of Structural Timber

To Eurocode 5

2nd edition



William M.C. McKenzie and **Binsheng Zhang**, both at *Napier University, UK*

Published by Palgrave Macmillan

This edition is a source of information on the nature and inherent characteristics of timber and practical design in relation to the requirements of the new Eurocode EC5. In addition it also has extensive explanations and worked examples relating to the new loading codes for dead, imposed, snow and wind actions, i.e. EC and EC1.

Contents: Structural Timber - Design Philosophies and Eurocodes - Design Loading - Structural Analysis Techniques - Flexural Members - Axially Loaded Members - Members Subject to Combined Axial and Flexural Loads - Roof Trusses - Mechanical Fasteners - Overall Structural Stability

September 2007 520pp 246x189mm
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Design of Structural Elements

W.M.C. McKenzie, *Napier University, UK*

Published by Palgrave Macmillan

'The author has provided an excellent text for undergraduate students.' - David Easterbrook, University of Plymouth, UK

A comprehensive treatment of the design of structural elements, suitable for first and second year undergraduates on civil engineering or structural engineering courses, and a useful reference tool for related disciplines like architectural or building courses which require knowledge of all the principal design materials. This book provides a detailed study of the process of design for structural elements, to the current British standards, in all four building materials: timber, masonry, concrete and steel. The scope of this text is wider than any existing text of this type and its numerous examples and diagrams make it an ideal course text.

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Soil Mechanics

Principles and Practice

2nd edition

G.E. Barnes, *Consultant, W. S. Atkins*

Published by Palgrave Macmillan

'One of the best textbooks on soil mechanics.' - J.W. Glenn, Belfast Institute, UK

Soil Mechanics provides coverage of the basic principles of soil mechanics for undergraduate students of civil engineering. The second edition has additional features such as Eurocode and key concepts boxes, and case studies illustrating the principles in real world situations. Necessary changes have been made to conform with changing British Standards. With this revision keeping *Soil Mechanics* abreast of developments, it will continue to offer a good understanding of the nature of soil and insights into how the principles are applied in the practical engineering context.

Contents: Soil Formation and Nature - Soil Description and Classification - Permeability and Seepage - Effective Stress and Pore Pressure - Contact Pressure and Stress Distribution - Compressibility and Consolidation - Shear Strength - Shallow Foundations: Stability - Shallow Foundations: Settlements - Pile Foundations - Lateral Earth Pressures and Retaining Structures - Slope Stability - Earthworks and Soil Compaction - Site Investigation

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BUILDING AND SURVEYING

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David Isaac, *University of Greenwich, UK*

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Construction Technology 1: House Construction

2nd edition



Mike Riley and **Alison Cotgrave**, both at *Liverpool John Moores University, UK*

Published by Palgrave Macmillan

This is a widely used and popular textbook designed specifically to support the study of domestic house construction at undergraduate degree and HNC/HND level. The second edition has been thoroughly revised to

reflect new technology and construction methods.

Key Features:

- Clear and accessible text structure for ease of use.
- Case studies drawn from real-life building sites – compiled with the support of a major national house builder.
- New material on sustainable construction, steel framed housing and prefabrication.
- Updated for new building regulations.
- Enhanced page layout, with improved figures and new photos.

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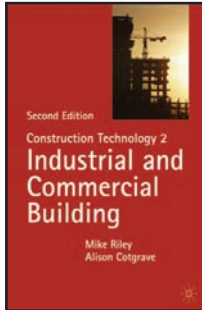
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Construction Technology 2: Industrial and Commercial Building NEW 

2nd edition



Mike Riley and Alison Cotgrave, both at Liverpool John Moores University, UK
Published by Palgrave Macmillan

A new edition of the second volume in the *Construction Technology* series, providing comprehensive coverage of industrial and commercial buildings for students at undergraduate and HNC/D level.

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Construction Technology 3: The Technology of Refurbishment and Maintenance NEW 



Mike Riley and Alison Cotgrave, both at Liverpool John Moores University, UK
Published by Palgrave Macmillan


This third volume is designed in a structured, directed format to help develop understanding, rather than providing a simple source of information. Uniquely it covers the technology of refurbishment

in both housing and large-span multi-storey commercial and industrial buildings, focusing on the environmental impact of refurbishment rather than new build.

Contents: The Reasons for the Refurbishment and Maintenance of Buildings - Common Defects Encountered During Construction - The Technology of Refurbishment - The Management of Maintenance and Refurbishment

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Construction Contract Law

The Essentials

2nd edition

John Adriaanse, South Bank University, UK

Published by Palgrave Macmillan

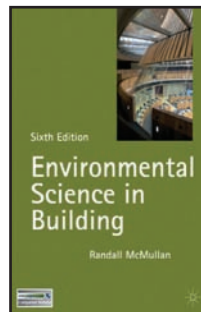
This book covers the essentials of the subject, such as how the law has developed, the reasoning behind key contract clauses, and how contract law is applied in practice. It is an invaluable guide for students at undergraduate and postgraduate level. Thoroughly updated including changes as a result of the new JCT 05 contract.

Contents: Table of Cases - Table of Statutes and Regulations - List of Abbreviations - The Nature of Construction Contracts - Outline of the Law of Obligations - The Formation of Construction Contracts - Consideration - The Role of the Architect and the Engineer - The Main Obligations of the Contractor - The Main Obligations of the Employer - Time and Provisions for Delay - Variations and the Right to Payment - Payment and Certification - Sub-Contracting - Supply Contracts - Design Liability of Professionals and Contractors - Liabilities Post-Completion - Determination and Damages - Methods of Dispute Resolution

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Environmental Science in Building

6th edition



Randall McMullan, Construction Physicist and Writer, formerly Head of Vocational Learning & Qualifications, Qualifications & Curriculum Authority (QCA) London, and Head of Building and Civil Engineering, College of North West London, UK

Published by Palgrave Macmillan

This clear text studies the science, technology and services that relate to the comfort of humans and the environmental performance of buildings. Topics are arranged for easy reading, and assume a minimum experience of science and mathematics. This edition has been revised in line with new regulations, up-to-date practice and world-wide trends.

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Surveying for Engineers

4th edition

J. Uren, University of Leeds, UK and W.F. Price, University of Brighton, UK

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Ivor H. Seeley, Nottingham Trent University, UK

Published by Palgrave Macmillan

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Ivor H. Seeley and Roger Winfield, both at Nottingham Trent University, UK

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A Strategic Approach



J. Christopher Westland, University of Science and Technology, China

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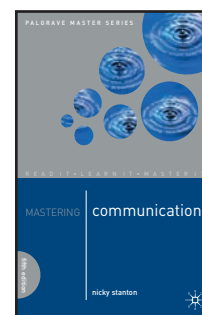
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